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BIENNIAL REPORT

OF THE

BOARD OF DIRECTORS

OF THE

Agricultural and Mechanical College

OF TEXAS.

1900-1901 AND 1901-1902.



AUSTIN, TEXAS:
VON BOECKMANN, SCHUTZE & CO., STATE PRINTERS.
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AGRICULTURAL AND MECHANICAL COLLEGE OF TEXAS.

BIENNIAL REPORT OF THE BOARD OF DIRECTORS.

Hon. Joseph D. Sayers, Governor of Texas.

SIR: We herewith transmit the biennial report of the Agricultural and Mechanical College of Texas. It will be unnecessary for us to enter into a detailed discussion of the needs of the college. The accompanying report of the President and of the officers and heads of departments deals quite elaborately with every interest of the college. We unanimously strongly endorse the President's recommendations and urge that you request the Legislature to make appropriations sufficient to carry them out. The time has come for Texas to have a great technological institution. Leadership in all industrial lines is greatly needed. No machinery for furnishing leadership has yet been devised superior to that of the great industrial educational establishments. As citizens of Texas, and especially as supervising authorities of the Agricultural and Mechanical College, we have felt a pride in the achievements of the college, but have been well aware of its many shortcomings. We do not believe that the State can afford to allow the defects to exist longer.

We most earnestly call your attention to the recommendations for extensions in the Agricultural, Veterinary and Horticultural Departments, and trust that provision may be made for the increase in the force of instructors and equipment in existing departments, and for the establishment of a strong Department of Animal Industry, with a large herd of typical animals for illustrative purposes.

It does not seem wise economy for the State to have the large investment represented in this institution and to fail to make provision for accommodations for large numbers of students. There should be from one to two thousand students in attendance at the college, but the accommodations at present are sufficient for only 350 under favorable conditions. There should not only be erected several large dormitories, but there should be placed in all the old dormitories ample facilities for bathing and modern sanitary arrangements. Furthermore, immediate provision should be made for the erection of four or five residences for members of the Faculty. The existing quarters are now so crowded that members of the Faculty are compelled to room in the second story of the Mess Hall in the lodgings reserved for visitors and for the Board.

The barns, outhouses, roads, sidewalks, and drains of the college are in a tumbled-down and exceedingly crude condition. In an industrial institution much of the teaching should be done through model equip-

ment. The strongest impressions are made through the eye. The appearance of the college property is, to say the least, not at all creditable to the State. We cordially endorse the recommendation of the President for a large appropriation to put the State's property in a thoroughly satisfactory condition. Economy demands this. It is necessary for preservation.

Perhaps the most urgent single need of the institution is for an engineering building for the accommodation of civil, railroad, sanitary and municipal engineering, and drawing and architecture. The large numbers of students taking these subjects would seem to justify suitable buildings and equipment. We trust that money may be placed at our disposal for the erection of a thoroughly solid modern engineering building. We deem it exceedingly important also that the college should be able to give more satisfactory instruction in electrical engineering. Having the Department of Physics, a four years' course in mechanical engineering, and an electrical light plant, the college can furnish a complete course in electrical engineering with very little additional expense.

We likewise emphasize the request for additional equipment for an additional instructor, and for a quarantine barn and a pen for animals suffering with contagious diseases, for the Department of Veterinary Science. Dr. Francis has done extremely valuable work for the State, and it seems only just that he should be given an opportunity for still more useful services.

We believe that the money appropriated for experiment stations has yielded much good to the entire State. We advocate the continuance of the two stations already established, the establishment of a third station in the black land section, and an appropriation of a considerable sum of money for the purpose of establishing temporary experiment stations and of carrying on co-operative experiments in different sections.

We are of the opinion that it would be wise for Texas to have a Textile Department, in which young men may be made familiar with textile machinery, with methods of organization, and with the processes necessary for manufacturing textiles. We believe that this department can be more economically established at the Agricultural and Mechanical College than anywhere else in the State, and that such a department would not only receive help from other college departments, but would in turn benefit all other departments. If the Legislature desires to establish such a department, the college authorities will do everything in their power to see that the appropriation is wisely expended.

We request the following appropriations for the next two years:

1. College Departments:

| | |
|--|--------------|
| Fiscal year ending August 31, 1904..... | \$269,000 00 |
| (No part of this appropriation to lapse at the end of said fiscal year.) | |
| Fiscal year ending August 31, 1905..... | 60,000 00 |

2. Student labor:

| | |
|---|-------------|
| Fiscal year ending August 31, 1904..... | \$ 5,000 00 |
| Fiscal year ending August 31, 1905..... | 5,000 00 |

3. Experiment Stations:

Fiscal year ending August 31, 1904—

| | |
|--|--------------|
| Beeville Station | \$ 2,500 00 |
| Troupe Station | 3,000 00 |
| New Station (to be expended in two years)..... | 10,000 00 |
| Temporary experiment stations..... | 7,500 00 |
| | <hr/> |
| | \$ 23,000 00 |

Fiscal year ending August 31, 1905—

| | |
|--------------------------|--------------|
| Beeville Station | \$ 2,500 00 |
| Troupe Station | 3,000 00 |
| Temporary stations | 7,500 00 |
| | <hr/> |
| | \$ 13,000 00 |

4. Textile Department (to be expended in two years)... 30,000 00

Respectfully submitted,

(Signed)

M. SANSOM, President;
 F. A. REICHARDT,
 A. C. OLIVER,
 WM. MALONE,
 P. H. TOBIN,
 A. P. SMYTH,
 JOHN W. KOKERNOT,
 JEFFERSON JOHNSON.

REPORT OF THE PRESIDENT.

COLLEGE STATION, TEXAS, September 22, 1902.

Hon. Marion Sansom, President Board of Directors, Agricultural and Mechanical College of Texas.

SIR: I have the honor to submit the following biennial report of the Agricultural and Mechanical College of Texas:

President L. L. Foster.—Since the last biennial report of this institution was submitted the college sustained a serious loss in the death of President L. L. Foster. President Foster had served as chief executive of the college for about three and one-half years, and had given the full benefit of his varied and ripe experience to its development. By his faithfulness to duty and by his wisdom in council, Col. Foster made a deep and lasting impression upon the administration of the college. By his just determination of questions submitted to him, by his unvarying courtesy, and his ready generosity, he endeared himself to the student body and to the Faculty. Both the student body and the Faculty to this day cherish his memory as that of a true and trusted friend.

Attendance and Enrollment.—During the session of 1901-1902 there was a total enrollment of 467 cadets, classified as follows: Post-graduates, 3; First Class, 33; Second Class, 57; Third Class, 112; Fourth Class, 218; Electives, 26; Specials, 9; Short courses, 9; total, 467. According to courses, the students were grouped as follows: Civil Engineering, 98; Mechanical Engineering, 116; Agricultural, 206; Electives, 26; Specials, 9; Short courses, 9; Post-graduates, 3.

Admission Requirements.—For several years the serious work of the college has been hampered by the presence of large numbers of immature untrained boys. In many instances these boys were sent here by parents who did not know what else to do with them. Their ultimate aim was not to have their sons made engineers of themselves, or farmers, or stockmen. They placed them in the college because it was remote from the attractions of city life, or because they desired them to profit by the military training in preparation for a course in literature, law, or medicine in some other institution. It needs no argument to show that the presence of such students not only seriously obstructs the efforts of the professors to do justice to the more serious minded students in their classes, but creates a very false impression in the State as to the purposes of the college. To meet this difficulty, the Faculty, under authority from the Board of Directors, raised the age requirement to 16 and increased the admission requirements, especially for the engineering courses. These requirements, strictly enforced, resulted in a slight decrease in the attendance at the opening of this session, but in a marked improvement in the quality and attitude of the student body. Before next session it would be eminently wise to apply the same requirements to the agricultural course, making provision for the admission of serious mature students without any examination whatever. We should then have at the college only men who have a serious purpose and who

desire to become engineers, farmers, horticulturists, dairymen, or stockmen. The instructors would be stimulated and the work all along the line would be done with vastly more enthusiasm.

Interests Represented.—An examination of the records gives the following results as to the interests or occupations represented by the student body: Farmers, 90; stockmen, 40; retail business men, mostly in small towns, 60; unclassified, 36; railroad agents, 11; mechanics, 6; engineers, 3; carpenters, 5; land agents, 9; dairymen, 3; bankers, 6; lawyers, 20; ginners, 5; hotel keepers, 3; printers, 1; bridgemen, 1; florists, 1; manufacturers, 2; tanners, 1; saddlers, 1; ice men, 1; bookkeepers, 3; postmasters, 1; teachers, 3; managers oil mill, 1; blacksmiths, 3; journalists, 1; doctors, 19; officials, 8; surveyors, 2; lumbermen, 6; brokers, 3; cashiers, 4; preachers, 2; shoemakers, 1; leather dealers, 2; lightning rod agents, 2; cotton buyers, 1; clerks, 3; barbers, 1; saloon keepers, 4; nurserymen, 3; miners, 1; insurance agents, 7; car dispatchers, 1; traveling men, 5; capitalists, 3.

It will be seen from this statement that the farmers and stockmen constitute more than 33 per cent. of the total patronage of the college, and that the remainder of the representation is distributed over nearly all the industrial classes in the State.

Changes in the Faculty.—Towards the close of the last academic year quite a number of changes occurred in the teaching force and in the staff of the Experiment Stations. Prof. J. H. Connell, Professor of Agriculture and Director of the Stations, after a long term of service in the State, resigned to accept a more lucrative position on the editorial staff of the *Farm and Ranch*. Mr. Alvord, Assistant Professor of Agriculture, resigned his position to return to his farm in Michigan. Prof. R. H. Price, Professor of Horticulture, tendered his resignation and returned to his home in Virginia. Mr. E. A. White, Assistant Professor of Horticulture, accepted a similar position, at higher salary, near his former home in New England. Prof. Mally, holding the position of Entomologist, tendered his resignation. Dr. Gillespie, Surgeon to the College, likewise severed his connection with the institution. The Department of Mechanical Engineering had the misfortune to lose two of its instructors, Messrs. Bryan and Rollins, both having accepted responsible and more lucrative positions in business.

The Board went about the filling of these vacancies carefully, and spent the greater part of the summer in making investigations. After a very careful survey of the field in the South, West and East, the following men were chosen: W. D. Gibbs, of Illinois, lately Professor of Agriculture and Director of Stations in New Hampshire, Dean of the Department of Agriculture and Director of the Experiment Stations; F. S. Johnston, of Indiana, lately Associate Professor of Agriculture in Purdue University, Professor of Agriculture; E. J. Kyle, of Kyle, Texas, Instructor in Horticulture, in charge of the department; E. C. Green, of Illinois, lately Chief Inspector of Nurseries on the staff of the Department of Entomology in Illinois, Instructor in Horticulture and Horticulturist to the Stations; Dr. Howard M. Lanham, of Waco, Texas, Physician and Health Officer to the College; C. S. Potts, of Texas, Instructor in History and Economics; E. E. Townes, of Austin, Texas, Instructor in English; O. D. Hargis, of Llano, Texas, Second Assistant Chemist; W. C. McNutt, of Missouri, Instructor in Mechanical Engineering; Mr. Babbington, of Missouri, Instructor in Mechanical Engineering, and E.

Dwight Sanderson, of the Delaware Agricultural Experiment Station, Entomologist.

These gentlemen have filled responsible positions elsewhere with very great success, and come to us with the best modern training and the highest endorsements of authorities of institutions with which they have been connected. Full biographical sketches have already been given to the public in each case, and only a formal report of the changes is deemed necessary at this time. I believe, however, that the college has been exceedingly fortunate in securing the services of these gentlemen, and that the interests entrusted to their hands will be adequately handled.

NEEDS OF THE COLLEGE.

Objects and Legal Relations of the College.—In order that the needs of the college may be adequately presented, a word may not be out of place concerning the purposes of the Agricultural and Mechanical College and its legal relations. The agricultural and mechanical colleges of the country are the logical results of the great transformation in thought and in industrial conditions which the beginning of the last half of the nineteenth century witnessed. Up to the beginning of the Civil War, the United States was in a very simple and somewhat crude economic condition. The country was largely agricultural, with, however, a vigorous start in other industrial lines. By the close of the Civil War tremendous strides had been made. An industrial revolution took place in an inconceivably short time. Partly to meet the vast demands for trained laborers in every field, and partly because of the strong protest against the old classical system of education, intelligent men began to interest themselves in industrial training. Little was accomplished, however, until the Federal government took up the matter. In 1862 the Land Grant Act, setting aside certain amounts of land in the various States for the promotion of industrial education, was passed. This was supplemented later by Acts in 1887 and 1890 by the Federal government. The States acted promptly and complied in one way and another with the provisions of the congressional acts. By general resolution in 1871, the Legislature of Texas formally accepted the provisions. Before this date, the Legislature had passed an act to provide for the establishment of the Agricultural and Mechanical College, at the same time appointing a commission to locate the college. After careful consideration the commission located the college in Brazos county, five miles south of Bryan, on a tract of land of 2416 acres.

The Constitution of 1876 recognized the Agricultural and Mechanical College as established by the Legislature and located in Brazos county, and constituted it a branch of the University of Texas, for instruction in agriculture and the mechanic arts and the natural sciences connected therewith.

The law governing the college at present, as set forth in the Revised Statutes of Texas, in conformity with the constitutional provision, defines the objects of the college to be to promote the liberal and practical education of the industrial classes of the State in the several pursuits and professions of life. Viewing the Constitution of Texas, the statutes bearing on the subject, and the action of the people in locating the college, it seems clear that it is a matter of State policy to furnish at the Agricultural and Mechanical College industrial or technological

training of every kind whatsoever to the young men of the State. It seems clear that the college was intended to be, in the largest sense, the technological institution of Texas. Constitutionally, it is a branch of the University devoted to technological training just as the Medical College at Galveston is a branch of the University devoted to medical instruction. The College is, therefore, a complement of the University, offering instruction in all technological subjects.

This statement of the objects of the institution will serve as a point of departure for the discussion of its needs. It is obvious to any thoughtful man that the demands of the State of Texas, with its tremendous area, its numerous interests, increasing in extent and variety daily with tremendous rapidity, can not be satisfied by an institution whose departments are inadequately manned and equipped.

The Agricultural Department.—It is not singular that the Department of Agriculture in this college, as it has been organized, has not been able to satisfy the State. Texas is the leading agricultural and live stock State in the Union. The extent of its territory and the variety of its interests make it impossible for one or two men to represent the varied interests in a forceful way before the student body, in the classroom, in the laboratory, and before the various organizations and meetings in the State. If our two instructors in this department were easily superior to any others in America, they could not possibly cover the whole field. The work of the Experiment Stations and the work of correspondence alone fully occupy the attention of the director. This leaves only the Professor of Agriculture to do class work and laboratory work for over 150 students in quite a variety of subjects, such as the elements of agriculture, farm equipment, breeds of stock, soil physics, farm crops, etc. This department at the college will never arouse enthusiasm among the students and induce young men to come here to prosecute theoretical and practical work in agriculture until it has a sufficient number of well equipped lecturers. There is no question that the addition of an Assistant Professor of Agriculture and an Instructor in Farm Engineering and Equipment is an absolute necessity for the satisfactory working of this department.

Furthermore, the present equipment for teaching agriculture is utterly insufficient. The department should be immediately supplied with a well equipped soil physics laboratory, where students may experiment on soils, their volume, weight, porosity and specific gravity, the power of compact and loose soils to hold water, the rate of flow of water through compact and loose soils, the power of soils to absorb moisture from the air, the chemical analysis of soils, etc.

Department of Animal Husbandry.—It is a little remarkable, viewing the fact that Texas is the leading live stock State in the Union, that no opportunity is presented at this college for instruction and experimentation in animal industry. It would add materially to the strength of the college if an effective Department of Animal Industry were provided. We should have for this department a first-class man as Professor of Animal Industry and another as instructor. Furthermore, the college should be supplied with a large selection of typical animals, including horses, cattle, sheep, hogs, etc. At least fifteen thousand dollars for two years will be required to establish this department and to provide it with the requisite force of instructors, equipment and stock of animals.

Barns.—Every visitor to the college remarks on the disgraceful

appearance presented by the college barns, outhouses and fences. No money has been available for a long time even for repairs. The authorities of the college are well aware that all this property should be models in the way of construction for the students and farmers to study. As a matter of fact, the buildings at present are such as no prosperous farmer would allow to stand on his premises. They are a positive reflection on the institution, and should be torn down and replaced immediately. To make the necessary changes and additions at least twenty-five thousand dollars will be required. This leads me to emphasize the suggestion that there should be added to the Department of Agriculture a competent instructor in Farm Engineering and Equipment.

Dairying.—The dairy business is rapidly coming to be one of the most prosperous and important in the State. The college has a large herd of dairy cattle and has a fair dairy equipment. There should be provided by the next session of the college a competent instructor in dairying, with a sufficient appropriation to provide the necessary laboratory apparatus.

Horticultural Department.—The Horticultural Department, owing to the changes which have recently taken place, is in a somewhat chaotic condition. It will be impossible to place it on a satisfactory footing, unless the Legislature makes adequate appropriations. It is necessary that the department should immediately institute experiments on a considerable scale in peach growing. This interest has recently made rapid advances in the State, and yet the majority of the men engaged in the industry are by no means well acquainted with the principles of fruit growing. The college vineyard is a total wreck. It would not take a large sum of money to start a new vineyard, but unless this is provided it will be impossible for the department to take any step in this direction. The department is further anxious to set out plum, pear and apple orchards, and is prepared to make experiments in persimmon culture. Likewise, it is fully alive to the need of careful experiments in truck farming, but can not undertake these experiments on a satisfactory scale unless adequate funds are provided from the State treasury.

Forestry.—Texas is one of the foremost lumber States in the Union. It would be impossible to estimate the saving that might result to the State if well recognized principles of forestry were followed by those engaged in the lumber business. I confidently believe that the extension of the work done at this college in forestry would not only be of immense value to the students who come here, but to the whole State. Among the advantages that might result from the enthusiastic study of this subject would be the awakening of the farming element in the State to the possibilities of improvement in the country homes.

The Veterinary Department.—Perhaps no other department in the college has done as much for the State of Texas as the Veterinary Department. By January, 1903, Dr. Francis will have moved into the new building provided by the last Legislature. Even then, however, he will not be adequately prepared to render the best service to the cattle interests of the State. Quite a large sum of money will be needed to equip this building. There is yet no means of handling large animals infected with contagious diseases in a thoroughly safe way. Provision should be made for a quarantine barn located at a safe distance in which infected animals could be confined. Such a building would cost not less than two thousand dollars.

More than 2000 fine cattle, brought into the State for breeding purposes, have been subjected to inoculation under Dr. Francis's direction, with a death rate from fever of less than 10 per cent. This work Dr. Francis has carried on under the greatest difficulties. There is now urgent need of better accommodations for this important work. It is very essential that quarantine pens, in which the animals can be held during the fever stages, shall be erected. Three thousand dollars would be sufficient for this purpose. Furthermore, it is essential, in order that Dr. Francis may have time to extend his investigations and to instruct his classes in laboratory work, that he be provided with a competent assistant. Surely, Texas, with a live stock wealth of ten million cattle, two and a half million hogs, two million sheep, and two million horses, can well afford to recognize Dr. Francis's great services and grant his very modest request for assistance and equipment.

The Chemical Department.—Work in industrial and agricultural chemistry lies at the very foundation of successful agricultural work. The Legislature has made provision for new and comfortable quarters for the Department of Chemistry. All the money, however, was expended in erecting the building. Before the department can do the work required of it efficiently it must secure a large appropriation for equipment, and must have its force of instructors strengthened. The new Professor of Agriculture is very anxious to remodel the course in agriculture so that students may begin agricultural chemistry in the first year and continue their work throughout their course. This will almost double the number of students taking work in the Department of Chemistry, and will obviously demand a very large addition to the force of instructors and to the laboratory equipment. Furthermore, it will require three or four thousand dollars to install the department in its new quarters, even upon its present basis.

ENGINEERING DEPARTMENTS.

It gives me very great pleasure to testify to the efficiency of the instruction in the various engineering departments of the college. Much interest and enthusiasm in the different lines of work have been shown by the student body. It is highly gratifying to note the very great demand for our graduates in all parts of the State. It has been quite impossible for the college to turn them out sufficiently rapid to satisfy the wants of the State.

Department of Mechanical Engineering.—This department is at present the best equipped engineering department in the institution. Last year it gave instruction to 116 students. This year its enrollment is even greater. Existing conditions call for a considerable extension of the department along present lines in the way of equipment and for the addition of a very important new branch. Prof. Whitlock, the head of the department, is very anxious to utilize the room made available by moving the old steam plant. He should have at least \$5,000 to purchase tools and apparatus, such as speed lathes for wood turning; iron working tools, such as lathes, planer, milling machine, etc.; blacksmith's forges, hammers, and blasting equipment; and such tools of precision as are in common use in well-equipped shops.

The new branch of work, the addition of which would be exceedingly desirable, is foundry work. This branch constitutes an important part

of the instruction furnished by every well-equipped technological college. Space should be provided for this work and equipment also, consisting of a furnace, of molding tools, and of all other ordinary foundry appliances. Eight thousand dollars would probably be sufficient to provide the additional rooms and equipment for the foundry.

Department of Civil Engineering.—This department has scarcely been able to meet the demands made upon it for instruction. Last year its courses contained approximately 100 students. It has turned out exceedingly well-equipped engineers. The graduates of the department have reflected great credit upon the instructor and upon the institution, and many more requests have been made for men trained in the department than the professor has been able to respond to. I believe that the time has come when the State should recognize the efficient work done in this department by making substantial additions to its equipment and to its teaching force. The professor in charge has accomplished great results under exceedingly unfavorable conditions. He tells me that he has not been able to make any substantial additions to his equipment for twelve years. I most sincerely trust that the appropriation provided by the Legislature may be sufficient to enable us to allot to this department a sum sufficient to purchase a power testing machine of at least 100,000 pounds capacity, experimental turbines, weirs, nozzles, meters, gauges, and other apparatus necessary for equipping a hydraulic laboratory, and also for purchasing a machine for testing paving brick and another for testing road materials, a motor to run testing machines, a pump, a special tank and piping for the hydraulic laboratory, and a number of field instruments, such as compasses, transits, and levels. Five thousand dollars would be sufficient to give a fair start, but it would take \$8,000 or \$10,000 to put the department in good condition, so far as equipment goes.

Engineering Building.—One great drawback under which the department has been laboring is the lack of adequate room properly lighted and arranged. The truth of the matter is that neither the Department of Civil Engineering, which also gives instruction in railroading, nor the Department of Drawing has sufficient accommodations in which to carry on its work. The rooms occupied by these departments are neither large enough nor sufficiently numerous even for present purposes; and it is practically impossible to extend the work in other directions imperatively demanded. The college should now not only offer foundation courses in railroad, sanitary, and municipal engineering and architecture, but should give complete four-year courses in each of these lines of work leading to a degree. Every well-informed man knows that it is practically impossible for individuals to secure good sanitary engineers for private work, and that it is exceptional when cities secure good sanitary or municipal engineers. It is, furthermore, a matter of common remark that there is no greater need in the State than the need for well-trained architects. I earnestly urge upon your attention, as one of the paramount needs of the college, a well-constructed commodious building in which civil, railroad, sanitary, and municipal engineering and drawing and architecture may be accommodated. The great number of students taking these subjects at this college would seem to demand that these departments should be as well provided for in the way of buildings as are the Departments of Veterinary Science, Agriculture and Horticulture.

Another reason for urging the erection of this building at this time is

the fact that the space occupied by these departments in the Main Building and in Gathright Hall is imperatively demanded for section and laboratory rooms for the increasing classes in English, history, mathematics and the sciences. Already we have had to move botany out of its quarters into the lower rooms of the Agricultural Building. This is a mere makeshift, however, and must of necessity be a temporary arrangement. The Director of the Stations and the Professor of Agriculture have informed me that the rooms, into which botany has been moved, will be required before the end of this session for class and laboratory work in agriculture and horticulture. The space in Gathright Hall, now occupied by civil engineering, should be available for the Department of Physics, which is crowded into a few rooms adjoining. I trust that an appropriation may be secured for this purpose and that it will be sufficient to enable us to put up a first-class building, and not one that will be inadequate in point of space or imperfect in point of construction. At least \$50,000 should be available for this purpose.

The Department of Physics—Electrical Engineering.—While excellent work has been done in the Department of Physics, it has been carried on at a disadvantage. Its laboratory equipment is by no means adequate. Much of the work of the Professor of Physics and much of his interest has been in the more practical applications of physics and in the field of electrical engineering. The demand for instruction in the latter subject has increased tremendously in the last few years, and the importance of extending the range and efficiency of instruction in this subject can not be overrated. It is fortunate that the college possesses a substantial part of the foundation for work in electrical engineering. It is well recognized in every technical institution, and by every competent engineer, that courses in mechanical engineering are necessary for the training of electrical engineers. In fact in the leading technological colleges, such as the Massachusetts Institute of Technology, Cornell, Ohio State University, Illinois, Case School of Applied Science, etc., the mechanical engineering course is the foundation of the electrical engineering course, covering the first three years. As we now have a complete four-year mechanical engineering course, it will be necessary only to provide a competent assistant with expert training in electrical engineering and additional special electrical apparatus in order to place our electrical course on a satisfactory basis, and to turn out well-equipped electrical engineers. Provision has to be made only for special technical instruction in engineering in the fourth year. I, therefore, hope that money will be available for the employment of an additional instructor and for the purchase of the additional equipment.

Department of Entomology.—It may be questioned whether any other field of work that can be mentioned is of more profound scientific and practical importance to the State than that of entomology. Pests of various kinds ravage the crops and the orchards of the State continuously. In a field so large, having such a vast variety of plants, each attacked by its own particular pest, it is not singular that one man should not be able to safeguard the various interests and to give satisfaction to any or all sections. Entomological problems can not be solved quickly on demand. Many such problems have been investigated in this State and in other States, and have been solved. But the results have not become matters of general knowledge, and much unnecessary damage has been sustained by planters and fruit growers. That the problem presented by the boll

weevil should not have been successfully attacked constitutes no sufficient reason for discouraging the work of entomologists and for failing to sustain the department liberally. It may well be doubted whether science will successfully solve this problem in the near future. It now looks as if it can be done only by the discovery of some parasite which will prey upon the boll weevil and still not damage the plant. In my judgment the State ought not only to provide an appropriation large enough to continue the present Department of Entomology at the college, but ought to provide one sufficiently large to equip an immense laboratory for investigation and to secure the services of a large staff of trained entomologists. I earnestly urge this matter upon your attention, and hope that you may be able to secure an appropriation large enough to enable the Department of Entomology to approach aggressively the many tremendous problems in this field. Not less than \$10,000, for two years, would be required to continue the work satisfactorily.

INSTRUCTION IN LANGUAGES.

The Agricultural and Mechanical College is essentially a technological institution, but still it is of the utmost importance that exceedingly thorough work be done in English and in the modern languages, including French, German, and Spanish. It is a matter of common remark that expert engineers and other specialists are, as a rule, badly trained in languages, especially in English. There is no sufficient reason for such a state of affairs. The professors in these subjects have striven earnestly to train properly the students under their charge in this institution, but they have fought an uphill fight and have by no means secured the results they themselves desired. In the first place very many of the students in their classes have been poorly prepared. In the second place, the numbers taking language have been very large; the sections have been numerous and the numbers in each section have been too great to be handled satisfactorily. In order to teach rhetoric and composition efficiently, it is necessary that each instructor do a large part of his work in private conference with students and in correcting and returning themes and compositions. It has been impossible for two instructors in English to do this.

This year the Board of Directors provided an additional instructor in English; and still the force is inadequate. Each instructor is compelled to meet classes approximately twenty hours a week. It is impossible for the instructor to do this amount of class work and also to do efficiently the very large amount of outside work demanded. The instruction in the modern languages is similarly hampered. Unless the work in the languages is efficiently done, every department in the institution suffers. The addition of at least two instructors in English and a competent instructor in the modern languages would uplift and strengthen the work of the college tremendously, and I earnestly hope that provision will be made for this additional force.

History and Economics.—The work in history in the institution has likewise suffered from the lack of a sufficient number of instructors. Up to this year no instruction whatever has been given in industrial history and economics. The Board of Directors believe that, in an industrial institution, it is essentially important that courses be given in industrial history, in the outlines of economics, in such subjects as transportation,

taxation, combinations of capital and labor problems. They are of the opinion that students should be trained to investigate special industrial problems in the State, such as the rice industry, the cattle industry, the sugar industry, and that they should be instructed in the business organization of farming operations and in the financial aspects of engineering problems. They, therefore, created an instructorship in history and economics and selected Mr. C. S. Potts, of this State, to fill the position. This very important work will be emphasized and extended as rapidly as possible. In order to carry on the work under satisfactory conditions, a large appropriation should be made for the purchase of books of reference and materials of every description.

The Health Department.—The authorities of the college recognize that the health of the student body and of others who constitute this community is a matter of prime consideration. The college is five miles from the nearest town, and is, therefore, in nearly all cases, dependent on the resident physician for medical attention. Knowing that nothing could justify them in entrusting the health of the college community to any except a skillful and well-trained physician, the Board carried on a careful inquiry during the summer with a view to securing a thoroughly satisfactory man to fill the vacancy created by Dr. Gillespie's resignation. As a result of the investigation and upon the recommendation of many of the leading physicians of the State, Dr. Howard M. Lanham, a graduate of the Jefferson Medical College, in Philadelphia, was selected. Dr. Lanham will not only treat cases of sickness arising, but will also lecture to the student body on hygiene and will develop as rapidly as possible lectures and investigations in the field of sanitary science for the benefit of engineers and architects. This work he is thoroughly competent to do. He should be provided at the earliest possible opportunity with a well-equipped laboratory for his work in hygiene and in sanitary science.

The Infirmary.—The building now used as an infirmary is, for the most part, well suited for the purpose. There is room, however, for improvement. The means of heating are not adequate. It is at present very difficult to secure an even temperature, which is so necessary in many cases. Furthermore, there is no provision for supplying hot water in the infirmary. The need for a good water heater and for a thorough reconstruction of the plumbing is most urgent. Moreover, there are no facilities whatever at the infirmary for the most simple surgical operations, nor are there any facilities for making analyses of urine or of the blood, or any other means for making a scientific diagnosis of diseases. Another radical defect is the lack of a proper room or building and of adequate apparatus for disinfecting mattresses, blankets, bedding, and clothing after they have been used in cases of sickness.

The Library.—The Agricultural and Mechanical College has been in existence for twenty-six years, and yet its library exists largely only in name. It contains not more than 3500 volumes, exclusive of government documents. This state of affairs is really discreditable to the State. The library is not as large or as well selected as many good private libraries. The rooms occupied are small and thoroughly unsuited for library purposes. A small library building with large and comfortable reading rooms should be erected, and a large appropriation should be made for the purchase of books urgently needed in all departments.

Accommodations for Students.—On account of its location the college is absolutely dependent upon cottages erected by the State for the pro-

fessors and officers and upon dormitories erected by the State for the cadets. At present the capacity of the dormitories is really only 350, although by crowding three or four in a room, as many as 500 may be accommodated. Such crowding, however, is absolutely unsanitary and detrimental, not only to the comfort and health of the students, but to discipline and proper standards of living. The college physician, Dr. Lanham, has made an inspection of the barracks, and reports that in his judgment no more than two students should be allowed in any one room. The rooms are not unusually large. The Commandant of Cadets concurs in this opinion.

Instead of 350 students at this place the State ought to have now at least 1000, and should have in the near future 1500 or 2000. No better investment could be made than one that would offer an opportunity to large numbers of young men in this State to take advantage of the industrial training provided here. I should like to see provision made for the erection of several large dormitories within the next two years. In providing new dormitories every care should be taken to make them thoroughly comfortable and to place in them bathing and sanitary arrangements after the most modern methods. The sanitary conditions prevailing at present are highly objectionable. Not one of the five dormitories has any bathing facilities in it, and not one has a sink or a closet. The only facilities furnished are two crude, unsightly, and unsanitary closets at a considerable distance from the dormitories. These closets should really be condemned as detrimental to the health and sensibilities of the students. There is no place on the grounds in which a student may take a bath, except the natatorium, which, while it satisfies a partial need, by no means begins to satisfy all the requirements of comfort and decency.

Accommodation for Instructors.—The Faculty of the college has already taxed the accommodations provided. Further additions to it will be made from time to time. Even now additional cottages are urgently needed. It will take at least four or five cottages within the next two years to meet the demands. In providing these cottages it seems to me the part of economy to build on a much more solid and substantial scale than has been adopted in the past. Many of the cottages that have been erected upon the grounds are very slight and unsubstantial, badly planned, and are constantly giving trouble and imposing financial burdens. Not less than ten or fifteen thousand dollars should be available within the next two years to provide the required accommodations for the officers and instructors.

Sewerage System.—Provision was made about four years ago for the construction of a sewerage system through the grounds. So far as the work extended it seems to have been well done and seems to work satisfactorily. Unfortunately, however, the system could not be completed with the money at hand, and does not extend down two of the principal streets of the campus. I have already referred to the fact that there are no sanitary arrangements in any of the barracks. These, as I have suggested earnestly, should be provided and should be connected with the sewerage system. To extend the system and to provide bath rooms and closets in the old barracks will require not less than \$5,500. I sincerely hope that the appropriation made by the Legislature will be sufficient to enable these essentially necessary improvements to be made.

Repairs.—Very few people realize the extent of the plant which the State has at this place. Certain it is that adequate provision has never

been made for keeping the buildings in good repair. The last Legislature appropriated only \$2,500 for two years. Quite a number of the buildings on the ground are old and that amount would not have put any one of them in thoroughly good condition. There is much work to be done on all the buildings, inside and out. There is not a building on the grounds which does not need repainting. In Gathright Hall all of the plaster should be knocked down and replaced; the roof should be gone over; and all the windows and doors should be reconstructed. The Main Building has had little done on it for a number of years. It is twenty-five years old and is still substantially sound, but needs an expenditure of \$2,000 or more to put it in good condition. The Mess Hall, which was badly constructed and which was injured by the Galveston storm was in need of very considerable repairs. Over a thousand dollars have already been expended on it. Columns were placed in the dining room to insure the safety of the building, and the roof was thoroughly braced. It will require at least \$1,000 more to finish the repairs needed on this building.

I might add that many of the professors' houses are scarcely such as men of any standard of comfort ought to be asked to live in. The five old brick houses, which have stood for twenty-five years, are in a thoroughly unsightly and unsanitary condition. The ceiling has fallen in nearly every room in every one of these houses. The wood work is in a miserable condition. The floors have sunk and in some places the walls have settled. It will require at least \$1,000 to put each of these buildings in a reasonably comfortable condition. I feel sure that the expenditure of \$15,000 or \$20,000 on the present building equipment of the college is a downright matter of economy. Unless something like this amount is expended, all the buildings and property of the State will steadily deteriorate.

Roads and Grounds.—It is a matter of common remark on the part of visitors to the college that the roads, sidewalks, and grounds are unsatisfactory and crude. This defect is one that all college authorities from the beginning have been keenly alive to, but, since no provision was made or them, it has been quite impossible to remedy the defect.

There is nothing better worth teaching students than the importance of good roads. If the college were provided with model roads it could not only teach the students by observation the practical importance of the subject, but it could teach the same lesson to thousands of farmers and others who visit the institution during the course of a year. It is possible to do much for the grounds through the use of student labor, but still a considerable equipment, in the way of teams, mowers and regular hands, is demanded and until a larger appropriation is forthcoming, it will be impossible to put the grounds in an attractive condition; nor can this be done in a thoroughly adequate way until provision is made for irrigating the grounds, especially along the line of the trees. Again, the gutters throughout the grounds need attention. Nothing thoroughly satisfactory can be done with them unless money is available for paving the gutters with stone, vitrified brick, asphalt, or some similar material. If this were done it would facilitate the removal of surplus surface water and would add materially to the appearance and healthfulness of the grounds by preventing the rank growth of vegetation in the gutters and by making it impossible for water to stand as breeding places for mosquitoes. The engineers at the college inform me that it will require at

least \$20,000 to put the roads, gutters, and sidewalks in a creditable condition.

Permanent Improvements Since 1899.—The following statement will indicate the permanent improvements and expenditures therefor at the college since 1899:

| | |
|---|-----------|
| 1. Foster Hall (dormitory)..... | \$ 28,000 |
| 2. Agriculture and Horticulture Hall..... | 31,000 |
| 3. Seven residences for instructors..... | 11,000 |
| 4. Electric light plant..... | 17,000 |
| 5. Sewer system | 8,000 |
| 6. Chemical and Veterinary Building..... | 31,000 |
| 7. Graveling walks | 2,000 |
| 8. Boring well | 2,500 |
| Total..... | \$130,000 |

Appropriations Needed for College Departments.—To provide for the needs of the college departments, including increase in force of instructors and equipment, additional accommodations for students and teachers, an engineering building, books and other materials for the library, barns and outhouses, quarantine pens, repairs on buildings, construction of roads and sidewalks, extension of sewerage system, sanitary arrangements in all dormitories, stock of typical animals, etc., appropriations will be needed as follows:

For fiscal year 1903-4.....\$269,000

No part of appropriation to lapse at the end of said fiscal year.

For fiscal year 1904-5.....\$ 60,000

In view of the small appropriations for the college in past years these sums may seem large, but when we consider the wealth of Texas, the recent tremendous industrial advances, and the great demand for trained men, they appear quite inconsiderable. It is impossible, in these modern days, to make a strong institution of learning with a small expenditure of money. The great institutions in the North and East have equipments ranging in value from three or four millions of dollars to twenty or twenty-five millions. Harvard University has an annual expenditure of nearly a million and a half dollars. The great institutions in the West spend annually approximately a half million dollars. Technological institutions are proportionally more expensive than literary or philosophical institutions because of the immense cost of machinery and technical equipment and because of the fact that technical experts can secure lucrative business positions, and are, therefore, not easily drawn into college work.

The amount asked for the first year will be used simply to put the college fairly upon its feet. It will not be sufficient to make an ideal technological institution of the Agricultural and Mechanical College of Texas. It is, in my opinion, the minimum with which the college can be placed on a reasonably satisfactory foundation.

Expressions are sometimes heard in criticism of the appearance, the equipment, and the work of this institution. I am convinced that it is unfair to lay much of the blame for its shortcomings at the door of the college authorities. In large measure it must be laid at the door of the State because of its failure to realize the immense problems involved and

to make adequate provisions. The State will have just the kind of college it wants. It is amply able to provide for a thoroughly strong institution, and it can not secure one unless it provides the money. In reply to such a statement it is frequently said that the college should show results on a large scale, and that then the money will be forthcoming. Undoubtedly every institution must make good use of what money it has; but it is folly in this day and time to expect an educational institution, with a small income, to show very large results, especially where it is compelled, by the very nature of the case, to engage in so many lines of activity. The trouble is that people expect results from an investment of twenty or thirty thousand dollars that would be secured with difficulty from an investment of half a million dollars. To expect such results, and to refuse further appropriations until they are forthcoming, would be absolutely to block all progress. I doubt if many of our people realize that the Federal government contributes more to the running expenses of the college than does the State of Texas.

Student Labor.—No appropriation which the State makes on a small scale seems to me to be more thoroughly warranted than that of \$5,000 annually placed at the disposal of the Board of Directors for the employment at the college of deserving students. There is nothing more pathetic than to see an earnest and ambitious young man of good mental and physical endowment striving against almost insurmountable obstacles to secure an education. Every year this college has young men apply for admission who desire to work their way through the four-year's course. Many of these young men the college, by reason of the \$5,000 placed at its disposal, is able to help and still receive great benefit in return. The student labor fund is expended under the supervision of the Faculty and President. Students of good training, of capacity for doing particular tasks, who show that they are serious and stand well in their classes, are employed during their unoccupied hours at rates ranging from ten to fifteen cents an hour. They do a large part of the work in the dairy, in the laundry, in the steam plant, in the various departments, and on the college grounds. It is extremely gratifying to observe that this labor, on the part of a considerable number of students, not only does not in any way injure their standing with their associates, but, on the contrary, advances them in the estimation of the corps and gives dignity to labor itself. I sincerely trust that this appropriation may be continued and should very much like to see it increased in amount.

The Experiment Stations.—During the last two years the college has had under its supervision, not only the experiment station on the college land, supported by Federal appropriation, but also the two sub-stations, supported by State grant, at Beeville and at Troupe. The work of the Beeville Station seems to have been very successfully carried on and to have solved satisfactorily quite a number of the problems presented in that section of the State. Unfortunately at the Troupe Station much difficulty was experienced in getting the permanent improvements under way and in clearing the grounds. The actual work of making experiments has been delayed. Part of the difficulty was due to the fact that the management of the Station was entrusted to a council, which was difficult to get together, and which acted very slowly. From this time forward the work will be pushed energetically and the Station will no doubt very soon show satisfactory results.

Opinion in the State and even in this institution is somewhat divided

on the question of permanent or temporary experiment stations. It seems to me, after careful consideration, that a compromise is by far the wiser arrangement. There should be a permanent experiment station in each representative section of the State. The Troupe Station will serve quite well for East Texas, the fruit growing section. The Beeville Station, or some other in South or Southeast Texas, would serve for the truck growing interests. There should be a third station somewhere in the black land area, in the general vicinity of Fort Worth. With these properly supported and with an appropriation of \$7,500 a year for temporary experiment stations, in various sections of the State, all the requirements would seem to me to be amply satisfied. This work should undoubtedly center at the Agricultural and Mechanical College. The authorities are familiar with such work and can secure the largest results from the money appropriated.

Appropriations Needed for the Experiment Stations.—For the fiscal year 1903-4:

| | |
|---|-------------|
| Beeville | \$ 2,500 00 |
| Troupe | 3,000 00 |
| New station in the black lands (to be expended in two years). | 10,000 00 |
| For temporary experiment stations. | 7,500 00 |
| Total | \$23,000 00 |

For the fiscal year 1904-5:

| | |
|--|-------------|
| Beeville | \$ 2,500 00 |
| Troupe | 3,000 00 |
| For temporary experiment stations. | 7,500 00 |
| Total | \$13,000 00 |

Textile Department.—Much interest has been manifested in the State during the last two years in the subject of textile training. There can be little question that much benefit would result from the establishment of such a department. It would act as a stimulus to the further diversification of industry. Young men trained in such a department would naturally become leaders and would contribute to the forces now at work in the direction of the establishment of textile manufactures. If such a department is to be established by the State, there can be little question that it can be more economically established at the Agricultural and Mechanical College than at any other place. Much of the instruction which would be needed in such a department is already provided at the college. It would be necessary, therefore, only to make provision for the erection of a building and for the addition of the requisite number of competent instructors. I have made inquiries of the heads of the three institutions in the South where textile departments have been established, and have been informed that these departments are rendering very valuable service. I am told that the departments in these institutions have been placed on a satisfactory basis with an appropriation of from twenty to fifty thousand dollars for building and instruction. In each case the greater part of the machinery was donated by manufacturers. I have no doubt that we could secure a donation of machinery. If the State desires to establish a textile department at the Agricultural and Mechan-

ical College, it should make an appropriation of at least thirty thousand dollars for the purpose.

Reports of Officers and Heads of Departments.—Appended to this statement you will find the reports of the officers of the college and experiment stations and of the heads of the various departments. All of them contain valuable detailed information concerning the work of the institution and its needs. I respectfully ask that you read these reports carefully. In certain cases it has been necessary to include two reports in one department because of the fact that these departments have changed hands. I desire especially to call your attention to the statements of the Dean of the Department of Agriculture and Director of Stations, to that of the Professor of Horticulture, and to that of the Physician and Health Officer. These departments are in the hands of new instructors now, and it seems proper that particular attention be called to the plans which they propose.

Very respectfully submitted,

DAVID F. HOUSTON,
President.

September 25, 1902.

REPORTS OF HEADS OF DEPARTMENTS.

REPORT OF PRESIDENT PRO TEM. WHITLOCK.

To the Board of Directors, Agricultural and Mechanical College of Texas.

GENTLEMEN: In taking up the work connected with the office of President I found the position a difficult one. Rules and regulations had been so long disregarded that even some of the Faculty, as well as students, were neglecting their duties, especially in the way of helping keep up the *morale* of the college.

By constant effort, and in some cases radical, and possibly arbitrary, rulings, some of the most glaring abuses have been eliminated, and to some extent their bad effects overcome. However, there is still much to be done along these lines, and I feel convinced that it will take at least two years of careful and painstaking labor on the part of those in charge before the corps of cadets can be brought to a proper realization of right and wrong and to a full understanding of the fact that the spirit of a law is of greater importance than the letter.

In making decisions and enforcing rules which were long disregarded the claims of some were necessarily overruled, and as a consequence you have probably received, from time to time, reports prejudicial to the good repute of those in charge and their ability to cope with the situation. While mistakes have undoubtedly been made, I feel no hesitation in stating that if you will carefully investigate these reports you will find the great majority of them to be either groundless or based on some personal spite engendered by official decisions made for the best interests of the college. Among other things you have probably been led to believe that the number of students in attendance had run down to a very low figure. But the records will show the number on the grounds the first of May this year to be 306, while last year at the same time there were 249, as nearly as may be determined.

Another rumor which seemed to gain wide circulation was that the boys were in a state of insurrection and that the authorities had no control over them. This had as little foundation in fact as the former one, as it was sent abroad before the only riotous act on the part of the students occurred. This act was due to no conspiracy whatever and was entirely unpremeditated, as was plainly evident to those who took the trouble to make themselves familiar with the details of the occurrence. I believe the majority of the Faculty will agree with me when I state that better and more satisfactory work has been possible this year in all

classes because the discipline has been better, and I have no hesitation in referring you to them for a verification of the statement.

My experience in carrying on the work this year has led me to the conclusion that the college has grown in such a way as to make it necessary for the President to be relieved of some of the details now connected with the position.

In the first place, he should not be required to carry the duties of Treasurer. I would recommend that the long and satisfactory services of Mr. J. G. Harrison, Bookkeeper, be recognized by making him Treasurer and giving him an assistant. He has practically been Treasurer in the past, as he has handled all moneys and made all necessary arrangements with the banks for carrying on the business, the President merely signing checks and looking into the books from time to time. This would relieve the President of a great deal of tedious routine work and would permit him to meet parents and students on a basis free from any embarrassments due to financial questions.

This arrangement would not, of course, prevent the President from looking into the status of affairs at any or all times, nor prevent him from having full control over the Treasurer and his general methods, but will relieve him of the details and responsibilities of the work.

Again I can see no reason for burdening him in any way with the Experiment Stations. If I may be allowed to make a suggestion in regard to this work, I would say by all means appoint a man as Director of the Stations and another man as Professor of Agriculture, making the two positions entirely independent of each other. Then let the Director assume the full responsibility for the work of the stations, giving him full control and holding him accountable for the success of the work. If necessary to have a council, let it be made up of the station workers, meeting at stated intervals and advising with each other as to the best work to pursue and the best method of pursuing it. With the main station and the two sub-stations, and undoubtedly more of them in the near future, the Director will have his time fully occupied, and should not be tied down by regular class work, which would prevent him from going to any part of the State at such time he might be needed.

I have reached this conclusion after many years of observation of the work of at least three different men who have filled the position of Director, and after being attached to the stations officially at two different times. This is intended in no way as a criticism of the action of the Board in forming a council, for, as I told Dr. Allen, of Washington, when he was inspecting, I believe this station is in position to do better work now than for several years past. But I also believe the principle of one man running the work is the only proper one. Being relieved of these two burdens the President can give his time and thought to the work properly belonging to his office and enable him to plan and carry out improvements in those lines most needed for the success and growth of the college.

There are many minor details in the work which I believe it will be possible for him to arrange as he encounters them, but these two have been forced so strongly on my notice that I have felt it necessary to mention them.

The work of removing and repairing old buildings has been pushed

as rapidly as possible under the circumstances. The natatorium has been thoroughly overhauled and repaired, and is now in better condition than it ever has been. This was done at an expense of over \$1,000, after it had been practically abandoned for two years. It has been in use since about the first of April, and has been thoroughly enjoyed by all since that time. Old houses have been torn down and the Mess Hall made safe. This latter work has been carried on from plans made by Professors Giesecke and Nagle, and pushed vigorously under the personal supervision of Prof. Giesecke, to whose care and skill the successful completion of the work is due. These repairs will not be finished until vacation, when the whole upper part of the house will be gone over and made presentable. But the main part of the work is completed and the house made safe.

The infirmary equipment has been put in better shape than ever before by additions, which were made at the suggestion of the Physician and trained nurse, and to a great extent this has removed the feeling which had become quite prevalent among the students that the hospital was a place to be avoided even when sick.

The work on gravel walks was unavoidably delayed by the fact that for a long time it was impossible to secure gravel from a reasonable distance. But finally the I. & G. N. Ry. Co. opened a new pit at Marlin and very generously gave us the gravel if we would pay freight and loading charges. Even then there have been unavoidable delays and the work is not quite completed.

From the present indications we will have more students here at the beginning of the coming session than we can accommodate, and it will be necessary to have all the available rooms in the barracks for their use. At present a few rooms are occupied by some of the younger officers of the college, and it may be difficult to arrange places for them all. Again, there is quite a demand from several departments for more room, and requests have been made for the rooms soon to be vacated by the removal of the Departments of Chemistry and Veterinary Science to the new laboratory building. These requests I have filed with Mr. Baker, Secretary of the Board of Directors, for your consideration.

There has been some criticism of my action in advising the abandonment of the cannery for this season. In this connection I desire to present a few figures for your consideration. In the first place, an appropriation of \$1,275 was made for this purpose from the treasury fund. This fund contains no money except what is turned into it from time to time and relies principally on the Farm Department for its existence. An appropriation of \$6,500 was made from it to run the farm and three salaries were to be paid from it. The college relies upon it also to pay for printing the annual catalogue, etc.

Should the cannery be run from it the money, should any be made, coming from the sale of canned goods, would not be available until in the fall, and in the meantime the expenses would be a drain on the college, as most of our funds are running out and we would be troubled to carry the financial load.

In order to show how little the profit would actually be I present the following figures based on the report made last year on the cannery work, and taken from the books of the college:

DR.

Supplies and labor.. \$ 1,279 49

CR.

Canned goods furnished to the Mess Hall, entered at prices taken from actual invoices for first-class goods bought in the market at the time.

| | |
|--|-----------|
| 254- $\frac{1}{2}$ doz. 3 lb tomatoes @ \$1.00..... | \$ 254 50 |
| 136- $\frac{3}{8}$ doz. 2 lb beans @ 80 cts..... | 109 35 |
| 293- $\frac{1}{2}$ doz. 2 lb corn @ 90 cts..... | 263 80 |
| 146- $\frac{7}{8}$ doz. 3 lb corn @ \$1.10..... | 161 25 |
| 20- $\frac{1}{8}$ doz. 3 lb blackberries @ \$1.00..... | 20 50 |
| 225- $\frac{1}{2}$ doz. 3 lb peaches @ \$2.00 | 451 83 |
| 132- $\frac{1}{2}$ doz. 3 lb pie peaches @ \$1.25..... | 165 10 |

| | |
|-----------------------------------|-------------|
| Total value..... | \$ 1,426 33 |
| Credit by material left over..... | 25 00 |

| |
|-------------|
| \$ 1,451 33 |
| \$ 1,279 49 |

Apparent difference in favor of cannery..... \$ 171 84

I mention the above as an apparent gain because no account whatever has been taken of the value of the fruit or the labor used in producing it. A conservative estimate would be to allow one-half the value of the product for this item, but in order to be sure of a fair estimate take one-fourth.

The following figures will show a loss in running the cannery if this valuation is considered a fair one:

Total value of canned product.....\$1,451 33

Total expense without fruit..... 1,279 49

One-fourth of value as above (\$1,426.33)..... 354 08

Total cost of production.....\$1,633 57

Total income, including overs..... 1,451 33

Loss in running.....\$ 182 24

Even if it is argued that this fruit was on hand and should be used, I claim that the college can realize more for the crop by selling the fruit in the open market and turning cash into the treasury instead of carrying the running expenses in the latter part of the fiscal year when funds are running low.

I was very much surprised to find that we have no trespass law in the State, which will protect us from idlers and those who might desire to thrust themselves upon us at any time. This has been forced upon my notice particularly in the case of students who have been expelled and who wish to remain about the place several days. In some cases there is fear that they may commit some act of violence against some of their fellow students or some act of vandalism in the way of destroying property.

Their presence is a menace to good order, and yet until some overt act

is committed it is difficult, if not impossible, to have them legally removed. Thus far we have succeeded in hurrying them away by threats of turning them over to the authorities, but I doubt if we could sustain our position if it was questioned. In fact, an opinion from the office of the Attorney General gave us no help in the matter. It might be well to take some action in regard to this, looking toward having a law passed covering the point.

In carrying on the work this year I believe I am safe in asserting that the majority of the Faculty have given me their hearty support, although a few have been lukewarm, and possibly in some very few cases negative in their influence.

For the wants and needs of the different departments I respectfully refer you to the various reports transmitted through me to your honorable body.

R. H. WHITLOCK,
President Pro Tem.

DEPARTMENT OF AGRICULTURE AND EXPERIMENT STATIONS.

(REPORT OF DIRECTOR GIBBS.)

COLLEGE STATION, TEXAS, September 16, 1903.

President David F. Houston, President of the Texas Agricultural and Mechanical College.

SIR: I herewith present recommendations concerning the needs of the Department of Agriculture and of the Experiment Stations connected with the college, for two years—September 1, 1903, to September 1, 1905.

Upon assuming the duties of Dean of Agriculture and Director of the Experiment Stations I have been impressed with the vastness of the agricultural interests of the State of Texas, and with the almost unlimited possibilities offered to future agricultural development. These tremendous interests should demand, and demand strongly, the best equipment and the best quality of work in the Agricultural College and in the Experiment Stations that is to be had anywhere. The present equipment for teaching agriculture in this college is hardly worthy of the name—it amounts to practically nothing. To begin with, there is only one teacher of agriculture, where there should be seven. Considering the wide range of the subject of agriculture and the great scientific and practical development in each of its branches it has become a physical impossibility for one man to grasp the entire subject. As will be shown later, we are in great need of at least six more men on our teaching force.

In the matter of material equipment we are sadly deficient. Our barns should be adequate and well built; models of construction for students and farmers to study. As a matter of fact they are, with one exception, a lot of tumbled down sheds that a prosperous farmer would hardly allow to stand on his farm. They are a positive disgrace to the institution and to the State.

In the matter of live stock we have practically no animals adapted to class instruction. This college should take the lead in live stock improvement in the State and should, therefore, be provided with first-class specimens of pure-bred animals of the leading breeds of horses, cattle, sheep and hogs. To attempt to teach breeds of stock or stock judging without the animals before the class is about as successful as trying to saw wood without a saw. It is a question of how long this deplorable state of affairs shall continue. It is time for radical action and it cannot come too soon.

We should have a well-equipped soil physics laboratory where students may experiment on soils and study the volume, weight, porosity and specific gravity of soils, and the power of loose and compact soils to hold water; the rate of flow of air and water through loose and compact soils, and of soils of different types; the power of soils to absorb moisture from the air; the capillary power of different soils; the plasticity of soils; the mechanical analysis of soils; the effectiveness of tillage in preventing evaporation of soil water, and many other scientific and practical problems concerning the soil. At present we have a room for this work, but there is practically no equipment for it.

The appropriations for agricultural education and agricultural investigation in this State have been insignificant in comparison with what other States of much less agricultural wealth have done. Certainly, there is no reason why our great State with its tremendous agricultural interests should be backward in providing the means for this important work.

I desire to discuss this subject under three heads: 1. Department of Agriculture in the College. 2. The Experiment Stations. 3. Farmers' Institutes.

DEPARTMENT OF AGRICULTURE.

To successfully meet the needs of agricultural education there should be at least four divisions or departments of instruction:

1. *Department of Soils and Farm Crops.*—Professor of Agriculture (already provided); Assistant Professor of Agriculture.

2. *Department of Animal Husbandry.*—Professor of Animal Husbandry; Assistant Professor of Animal Husbandry.

3. *Department of Dairying.*—Professor of Dairying; Assistant Professor of Dairying.

4. *Department of Farm Engineering and Equipment.*—Assistant Professor of Farm Engineering and Equipment.

The above classification calls for seven men, one of whom, the Professor of Agriculture, is already provided. With this amount of help it will be possible for the college to do a high grade of instruction in the several lines of agriculture, a grade of work equal to that done in a large number of other institutions in the country.

* ADMISSION REQUIREMENTS AND COURSES.

In this connection I wish to recommend that the requirements for admission to the first year of the four-year course in agriculture be raised. With our present low requirements it is necessary to give students considerable work of high school grade and this fills up the course to such an extent that it is impossible, in the short time of four school years, to give them the thorough training in scientific and technical agriculture that

could be given if they were better prepared before entering. This results in lowering our standard to such an extent that our men fail to take the high standing of graduates of many other agricultural colleges. The agricultural course should mean the same to the farmer that the engineering course does to the engineer, or the medical course to the physician, and this cannot be done in the right way unless students are well prepared before entering the course.

While it is true that our four-years' course in agriculture should be established on a high plane and so maintained, it is also true that the college should provide a high grade of instruction in the technical subjects of soils, soil improvement, crops, dairying, live stock breeding, live stock production, veterinary medicine, horticulture and entomology, to such students of mature years as do not have time or money to spend four years in college. These students are provided for in what are called "Short Courses in Agriculture," in Stock-farming, and in Horticulture, which are conducted during the winter term, and give the students instruction in technical subjects only.

EQUIPMENT.

Instructional Equipment.—In the Department of Soils and Farm Crops, I recommend the appointment of an Assistant Professor of Agriculture at a salary of twelve hundred dollars. In the Department of Animal Husbandry a Professor of Animal Husbandry at two thousand dollars, and an Assistant Professor of Animal Husbandry at twelve hundred dollars. In the Department of Dairying, a Professor of Dairying at a salary of two thousand dollars, and an Assistant in Dairying at eight hundred dollars. In the Department of Farm Engineering and Equipment an Assistant Professor at twelve hundred dollars. Also a stenographer for the teachers in the Department of Agriculture at a salary of six hundred dollars.

Material Equipment.—1. Equipment of soil physics laboratory and supplying other instructional material, \$1,500.

2. For tearing down all of the farm buildings except the mule barn and replacing them with a good cattle barn with silos in connection, a horse barn, a piggery, a poultry building, an implement building, and veterinary hospital barn, \$30,000.

3. For supplying representative specimens of the several pure breeds of live stock for use in instructing students and for experimental purposes, \$10,000.

4. For remodeling and equipping the dairy laboratory and providing instructional material, \$2,000.

5. Instructional material in farm equipment (including drainage levels, measuring chains, pumps, engines, and other instructional material), \$1,000.

6. For supplying the library with the necessary books of reference (including one set each of the Hereford, Short-horn and Merino herd books), \$1,000.

EXPERIMENT STATIONS.

The small amount of money which the State has heretofore expended in experimental work in agriculture is entirely out of proportion to the vast agricultural interests of the State and should be increased mate-

rially. We have at present three stations: Main Station, located at the college, with a sub-station located at Beeville and another at Troupe. The Main Station is supported by the Federal government entirely, while the Beeville and Troupe sub-stations are supported by State appropriations. The small amount of aid which these two stations have received has necessarily been used largely in providing buildings and other permanent improvements. We should have at least two more sub-stations, four in all, each representing a distinct agricultural locality. One of these new sub-stations should, in my judgment, be established in what is known as the "black land" section of the State, in the general locality of Dallas; and the other in the general locality of Abilene. We will then have the Beeville Station, representing the truck section of the State; the Troupe Station, the fruit section; the station in the general locality of Dallas, representing the black land section; and the station near Abilene, or in that general locality, representing the semi-arid western parts of our State. For the establishment of these two new sub-stations I recommend that \$10,000 for two years be provided for each of them, and \$8,000 each for two years thereafter to pay the running expenses. I also recommend that \$8,000 for two years be appropriated for the Beeville Station, and \$8,000 for two years for the Troupe Station, for paying the running expenses. With the above mentioned sums of money it will be possible to equip the two new stations and to carry on creditable experimental work at the four stations. It is my belief that more good can be accomplished for the money expended at a limited number of permanent sub-stations than can be accomplished by spending the same amount on co-operative experiments with farmers at different localities in the State, for the reason that careful scientific experimental work is exacting and cannot be carried on successfully without the immediate attention of a well-trained man or without the necessary equipment in the way of tools, laboratories and buildings, which are not to be found on the average farm. The simple fact that the farmers do not as a rule have available scales in which to weigh the crops is in itself an objection to co-operative work with field crops. It has been suggested that temporary stations should be established at various places over the State, but this would involve an expenditure of much time and money in preparing the ground and buildings, and would, therefore, be expensive if carried on extensively in a large number of places.

FARMERS' INSTITUTES.

In recent years the farmers' institute has served an excellent purpose in extending the work of the Agricultural College and Experiment Station to the farmers of the State. It has served to bring the farmers of the State and the college and station men into closer touch, and to a mutual understanding of each others' work. The institute serves a purpose in this connection that is not accomplished by the bulletins and other publications of the station or by the class room instruction given in the college. So important has this work become that it demands the immediate support and co-operation of the Agricultural College and Experiment Stations. I heartily concur in this matter with my predecessor, who writes as follows in his report to the Board of Directors: "The extension of the college work to the village and rural sections of our State by the application of scientific methods to the operation of farm,

garden, and ranch is a most important feature of our work and should now receive careful consideration at the hands of the college authorities. The Experiment Station is publishing at intervals important and valuable works upon investigations conducted in behalf of the agricultural enterprise of the southwest, but these bulletins are so few and far between in their appearance that the Station must of necessity fail to satisfy the constant demand for agricultural information unless its publications are supplemented by a voluminous correspondence and by that system of propaganda known as farmers' institutes."

The Agricultural and Mechanical College is the natural head for this work which should be centralized at the college and operated under the direction of the college authorities. There are many reasons for this. A large part of the best instruction given at farmers' institutes is by college teachers and station workers, who are closely in touch with the scientific and practical features of the agriculture of the State. It is also mutually helpful for the station and college men to come in close contact with the farmers. By so doing the farmers will better appreciate the work done by the college and station and the college and station men will better understand the needs of the farmer. Furthermore, the college is already under State organization and is prepared to make wise use of any funds which may be placed in its hands. An appropriation of \$15,000 would be sufficient to establish this work on a firm and rational basis.

FINANCIAL SUMMARY.

Department of Agriculture.

| | |
|---|-------------|
| Assistant Professor of Agriculture..... | \$ 1,200 00 |
| Professor of Animal Husbandry..... | 2,000 00 |
| Assistant Professor of Animal Husbandry..... | 1,200 00 |
| Professor of Dairying..... | 2,000 00 |
| Assistant in Dairying..... | 800 00 |
| Assistant Professor of Farm Engineering and Equipment.... | 1,200 00 |
| Stenographer | 600 00 |
| Equipment soil physics laboratory..... | 1,500 00 |
| Barns, buildings, etc..... | 30,000 00 |
| Live stock | 10,000 00 |
| Equipment for dairy laboratory..... | 2,000 00 |
| Farm equipment—instructional equipment..... | 1,000 00 |

Total for Department of Agriculture.....\$53,500 00

Experiment Stations.

| | |
|--|-------------|
| Establishment of two new sub-stations and maintenance for two years | \$20,000 00 |
| Beeville Sub-station, maintenance for two years..... | 8,000 00 |
| Troupe Sub-station, maintenance for two years..... | 8,000 00 |

Total for Experiment Stations.....\$36,000 00
Grand total\$89,500 00

Respectfully submitted,

W. D. GIBBS,

Dean of the Department of Agriculture and Director of the Stations.

DEPARTMENT OF AGRICULTURE.

(PROFESSOR CONNELL'S REPORT.)

COLLEGE STATION, TEXAS, June 7, 1902.

To the Honorable Board of Directors, Texas Agricultural and Mechanical College, College Station, Texas, through Prof. R. H. Whitlock, President Pro Tem.

GENTLEMEN: I have the honor to hand you herewith the annual report of the Department of Agriculture for the current scholastic year, which will indicate the history and growth of our work during the past year and the needs of the department for the coming session.

The instruction of students in the department has been assigned as heretofore, with the exception of the short course work, which is an entirely new feature and was carried this year by the assistant and myself without additional teaching help. Although the catalogues for the short courses were late in being published, on account of the sickness of the late President Foster, the attendance was fairly satisfactory and will during another year approximate, in my judgment fifty or seventy-five young men. The students who have completed the course this year expressed themselves as highly gratified with the practical value of the instruction received and will induce others to come during our next winter session. A number of regular students "elected" the short course work because of its practical features this year.

Another new feature which has been inaugurated and supported very pleasantly during the year has been the organization of the Students' Farmers Club, which has held meetings twice each month for the discussion of practical farm subjects. One of the results of this club has been the development of a strong agricultural spirit among the students of the agricultural course and a more practical grasp of the subjects in the class room. The work has been supported in the main by Assistant Professors Alvord and White and Prof. Price and the writer.

We have had under instruction 190 students in the agricultural course proper during the year which, according to statistics recently gathered by the officers of the University of Ohio, shows that we stand second in enrollment of students in the regular four-year course and fifth in point of enrollment when both regular and short course students are considered, although our short courses have been established but one year.

A study of the catalogues of the various institutions shows conclusively that we devote a larger number of hours during the year to instruction in agriculture than does any similar college in the country, but we do so under the disadvantage of having the time of only one and one-half teachers to devote to this large amount of instruction. Comparisons are odious but necessary, and in comparing the relative difficulty with which teaching is done in agricultural subjects, as compared with that done in the older school topics, such as mathematics, language, or even the sciences of botany and chemistry, it must be borne in mind that both laboratory methods and the pedagogic form employed in instructing in agricultural subjects are quite new and necessarily difficult. Such teaching requires extra time in the preparation for laboratory exercises and a

peculiar adaptability to changing conditions of the season and weather, not called for in giving instruction upon any other subject.

I present herewith a tabulated synopsis of the teaching work done by all departments of instruction in this institution, gathered from the authentic report prepared by the Schedule Committee, at the request of the Faculty, which shows the amount of teaching done by departments, the number of students per term, and the number of instructors available for this work:

| Department. | In- struc- tors. | Fall Term. | | Winter Term. | | Spring Term. | |
|----------------------------|------------------------|-------------------|----------------|-------------------|----------------|-------------------|----------------|
| | | Hours t'ching. | Stu- dents. | Hours t'ching. | Stu- dents. | Hours t'ching. | Stu- dents. |
| Agricultural | 1½ | 38½ | 184 | 51 | 19 | 26 | 26 |
| Botany | 1 | 23 | 30 | 25 | 124 | 17 | 121 |
| Chemical..... | 2 | 29½ | 75 | 30½ | 79 | 27 | 61 |
| Civil Engineering..... | 1 | 16 | 47 | 16 | 61 | 27½ | 47 |
| Drawing | 2 | 66 | 393 | 65 | 341 | 58 | 290 |
| English..... | 2 | 59 | 403 | 49 | 310 | 51 | 299 |
| Entomology | 1 | | | | | 7½ | |
| History..... | 1½ | 33 | 299 | 33 | 256 | 35 | 287 |
| Horticulture | 1 | 10 | 1 | 16½ | 19 | 34½ | 127 |
| Language | 1½ | 12 | 78 | 16 | 97 | 16 | 81 |
| Mathematics | 3 | 73 | 415 | 78 | 338 | 79 | 289 |
| Mechanical Engineering.... | 4 | 62 | 339 | 62 | 284 | 41 | 127 |
| Military Science..... | 1 | 3 | ? | 4 | 78 | 3 | ? |
| Physics..... | 1 | 30 | 158 | 25 | 128 | 19 | 99 |
| Veterinary Science..... | ½ | 5½ | , | 10 | 23 | 11½ | 26 |

A glance at the above schedule will show that the amount of teaching work performed by the Agricultural Department during the present year is quite all that can be expected of the men employed, but the number of hours to be taught during the coming session will be necessarily increased for two reasons: (1) The third class must be taught in two or three sections next year instead of one and the short courses will require about 100 per cent. more instructor's time than was found necessary during the past winter. This statement is based upon the assumption that next year's third class will contain fifty or seventy-five students and that the dairy and the live stock short courses will matriculate twenty-five men.

It will become necessary to provide another instructor to assist in this work, and I, therefore, recommend that in filling the vacancy caused by the resignation of Assistant Professor Alvord that an Assistant in Dairying be provided for in whose charge the dairy work will be placed and who will be made responsible, not only for the proper operation of the department, as it is now equipped, but be made to feel interested in its future development.

The duties of the Director of the Station have grown so in volume that it will be impossible for him to hereafter do any *regular* class work without detriment to those experiment station interests that call him away from the college from time to time, such as the sub-stations and the co-operative experiments undertaken with sundry crops now being grown in various sections of the State. It is, therefore, advisable that the Director deliver only occasional lectures to the classes and at such times as may suit his convenience, and retain a general supervision over the class work and the development of the Agricultural Department of the

college. In this way he will deliver a few lectures to each class that will contain information of the greatest practical value, but without materially interfering with the regular course of lectures that are being delivered by the regular instructor. It is advisable that the present title should be changed from Professor of Agriculture and Director of Station to Dean of Agriculture and Director of Station, as has been done in nearly all of our efficient institutions where development of college and station work have been provided for. Iowa, Wisconsin, Minnesota, Illinois, Ohio, and New York have adopted this system and rank among the first agricultural institutions in the United States. The Agricultural Departments of the colleges named are organized, and the number of students instructed, as shown by official reports, indicated below. To accommodate the developed work of the Texas college, our Board should take decided steps at once looking to a similar organization of this work here:

Illinois: (86 students, total.)

- One Dean of the Department.
- One Professor of Animal Husbandry.
- One Professor of Agronomy.
- One Professor of Soil Physics.
- One Assistant in Farm Crops.
- One Assistant in Dairying.
- One Instructor in Farm Machinery.

Iowa: (200 students, short and long courses.)

- One Dean of the Department.
- One Professor of Agriculture.
- One Professor of Animal Husbandry.
- One Assistant Professor of Dairying.
- One Instructor in Dairy Bacteriology.
- One Assistant in Animal Husbandry.
- One Assistant in Dairying.
- One Instructor in Agriculture.
- One Instructor in Agricultural Physics.

Minnesota: (503 students, principally in short course.)

- One Dean of the Department.
- One Professor of Agriculture.
- One Professor of Dairying.
- One Professor of Animal Industry.
- One Instructor in Dressing and Curing Meats.
- One Instructor in Poultry.
- One Instructor in Butter Making.
- One Instructor in Cheese Making.
- Two Assistants in Dairying.

New York: (171 students, long and short courses.)

- One Dean and Professor of Agriculture.
- One Professor of Animal and Dairy Husbandry.
- Two Assistants in Agriculture.
- One Assistant in the Dairy Laboratory.
- One Assistant in Dairy Husbandry.
- One Assistant in Cheese Making.
- One Assistant in Butter Making.

Ohio: (141 students, long and short courses.)
One Dean and Professor of Agriculture.
One Professor of Dairying.
One Instructor in Cheese Making.
One Instructor in Zootechny.
One Instructor in Agronomy.
One Assistant in Dairying.
One Assistant in Agriculture.

Wisconsin: (381 students, principally short course.)
One Dean and Professor of Agriculture.
One Professor of Animal Husbandry.
One Professor of Dairying.
Three Instructors in Cheese Making.
Nine Instructors in Dairying.

Texas: (190 students, principally long course.)
One Professor of Agriculture and Director.
One Assistant Professor of Agriculture.

Should the Board see fit to change the title, as suggested, it will require the creation of a Chair of Agriculture as a separate and distinct position. This Professor of Agriculture, with an assistant, giving all of their time to class instruction work, will be able to instruct the classes during the coming year without other teaching help.

In my humble opinion, it is very important that the Director of Stations should exercise some supervision and authority over the Agricultural Department of the College and the agricultural course in order that the requirements of the people of the State, with whom the Director comes closely in contact, may be met from time to time and in this way constantly infuse new life into the class work of the agricultural course. Should it be deemed inexpedient by the Honorable Board at this time to change the present title for the position and the work indicated (that of Professor of Agriculture and Director of Station), then an additional assistant should be provided for as it will be impracticable for the Professor of Agriculture and Director to do any considerable amount of teaching during the coming year.

Our classes continue to suffer for the necessary live stock for illustrative purposes and, as indicated in a special communication to your Honorable Body during the past winter, the Legislature should be urged to provide the necessary funds for the purchase of pure-bred herds of cattle, sheep, and hogs for our use in instructing the students of this institution. A bunch of fat beef cattle are being fed upon the college grounds that are intended for show purposes during the coming fall season that will render some assistance in this respect. The hogs which I was authorized to purchase by funds derived from the sale of cattle, have not been bought yet because of an outbreak of a disease among the herd during the spring, which rendered sales inadvisable. The necessary funds may be derived from the sale of this stock during the coming season in time to purchase the hogs for use of students during September and October. This matter must not be permitted to escape attention on account of the fact that our students are expected to enter the prize swine judging contest at the Dallas Fair during the coming fall season, and they should, therefore, be given a special opportunity to judge pure-bred hogs before attending the Fair. This contest has been arranged for

through the liberality of the Texas Swine Breeders' Association and the Dallas Fair Association. I am assured that the San Antonio Fair Association is also anxious to co-operate in this matter, and I hope that by another season we shall be prepared to send a team to each of the fairs. Starting late this year, we think that we shall be able to prepare only one team for this interesting work.

The dairy equipment possessed by the college is one of the most efficient that has been gathered in any institution of learning, but I regret to say that we have thus far been unable to give our classes proper instruction in pasteurizing milk, although we deem this a highly important branch of the dairy industry in this State. The sale of milk is one of the most profitable phases of dairying and we should be in such a position as to give the most scientific and practical instruction in the preparation of milk and cream for sale. Our instruction in butter dairying and in cheese making has been well up to the standard ever since moving into our new quarters, but we have been unable to make the necessary business arrangements with the steward of the Mess Hall and the Farm Superintendent for the pasteurizing of the college milk supply because several parties are involved in the control of this matter.

The nature of the instruction imparted to students grows more efficient annually as our equipment increases. This desirable change has resulted in a feeling of satisfaction in the students under instruction, creating in them confidence in the instruction received, that is of the greatest industrial and educational value. The lecture work, or text-book instruction, is always supplemented by practical demonstrations, or research into literature bearing upon the more general features of the topic under consideration. The experiment station library is freely used for consultation purposes, as is also the reading room of the experiment station, located in the new building. The college library should contain herd books of the Hereford, Short-horn, and Merino Associations, as these are very much needed by our classes and should be provided before the beginning of another session. Each set will cost, approximately, \$150. The Shorthorn and Hereford books should be provided if *all* cannot be secured.

With the large number of matriculates in the lower classes; we shall within the next two years turn out graduate classes of fifteen or twenty men from the agricultural course. These, together with the large number of short course students, will wield a very profitable influence upon our State's agricultural interest. The work of the Agricultural Department and of the agricultural course has gone steadily forward for a number of years and it now only needs to be normally supported by the college authorities to yield the very highest results obtainable.

The running expenses of the department amount to some \$750, which sum should be provided for the approaching fiscal year. Funds should also be provided for the publication and distribution of a new edition of the short course catalogues as the first supply has become exhausted and the contents are not entirely applicable to present conditions.

Feeling assured that the President and the Honorable Board will do all they can to advance this important interest, and offering to assist in this work in any way that may be presented, I am

Very sincerely yours,

J. H. CONNELL,

Professor of Agriculture and Director of Station.

EXPERIMENT STATIONS.

(REPORT OF DIRECTOR CONNELL.)

COLLEGE STATION, TEXAS, June 6, 1902.

To the Honorable Board of Directors, Texas Experiment Station.

GENTLEMEN: I have the honor to herewith transmit my annual report as Director of the Texas Experiment Stations for the fiscal year July, 1901, to June, 1902.

PUBLICATIONS.

Since handing in my last annual report upon experiment station work in the State, we have published the following bulletins, containing 132 pages of matter:

Agricultural Section: Bulletin 60, "Growing Onions," illustrated (Beeville), 11 pages.

Horticultural Section: Bulletin 62, "The Fig," illustrated, 29 pages.

Chemical Section: Bulletin 61, "Willis and Huntsville Tobacco Soils," illustrated, 14 pages.

Veterinary Section: Bulletin 63, "Texas Fever," illustrated, 60 pages.

Special Services: Bulletin 64, "Insect Pests Attacking Truck Crops," 18 pages.

In addition to these, the thirteenth annual report, 20 pages, has been published.

There is now available for printing in the near future some valuable data upon watermelons grown at the Beeville Station, giving the results of forcing the crop by different methods, the result of the application of different fertilizers, and a test of varieties. The Agriculturist states that we may also expect a report upon the experimental orchard and vineyard work that has been under way at Beeville since the establishment of the station in 1894. The Chemist reports that he has data in hand bearing upon the making of sugar cane syrup, which will be available for publication within the next thirty or sixty days.

THE BEEVILLE STATION.

Owing to the meager appropriation for the first establishment of the Beeville Station, the irrigation system was not developed until 1897, and although attempts had been made to secure reliable results from vegetables planted at the time of the location of the station they were not thought sufficiently reliable to justify publishing them in bulletin form. Several press note articles were, however, secured from the work and were very generally copied in the papers of the State.

The irrigation system developed at the Beeville Station, and reported on in Bulletin 43, is a perfect success and a model after which many others have been planned in South Texas.

In Bulletin No. 50 the results secured with cotton experiments in test-

ing varieties and distances for planting are stated, indicating the cultural methods best suited to the several varieties under trial, as well as showing the value of an improved variety of seed over the unimproved cotton ordinarily grown.

The reports on cabbage and cauliflower are published in Bulletins 52 and 57, showing results obtained with numerous varieties, fertilizers, cultivation and shipping tests. The varieties recommended in these reports have been generally adopted by the growers. The acreage in these crops has been greatly increased as a result of the demonstration made in shipping cabbage and cauliflower to Northern markets. As a result of this work, uniform packing and the selection of shipping stock has forced the Northern markets to recognize the superior excellence of Texas cauliflower and cabbage over that produced in California.

A number of experimental crops of onions have been grown to test varieties best suited to the soil and climate of South Texas and to determine most economical methods of production. Results are reported in Bulletin 60 and indicate clearly that this truck crop may be successfully produced without irrigation in the South Texas country, if the Bermuda and Creole varieties are selected and hand cultivation is practiced.

Extensive tests have been under way with watermelons and cantaloupes during two seasons, embracing the forcing of melons for early market, selection and application of fertilizers, varieties best suited for hardiness and shipment, but the results are not yet sufficiently conclusive to warrant publication. We have similar unpublished data relating to Irish potatoes, embracing fertilizers, varieties, and source of seed; some valuable data on the Cassava plant, forage crops, and varieties of tomatoes, which have thus far been inconclusive.

The orchard and vineyard, of some ten acres, has been kept in a thrifty condition, but a majority of the varieties of plums, peaches, pears, apricots, and grapes have proved little suited to this climate. It is probable that a valuable bulletin can be published giving these results before next planting season.

The investigations under way include development of the irrigation water system in use and experiments with potatoes, cantaloupes, cassava, onions, cabbage, cauliflower, corn, cotton, grasses, and forage crops. Some crops for stock feeding purposes are also grown upon the Station grounds.

The systematic experiments with potatoes embrace (a) hilling vs. level cultivation, (b) deep vs. shallow planting, (c) varietal, (d) source of seed, (e) fertilizer.

Cantaloupes (a) under glass vs. in open, (b) spraying one-half each.

Onions (a) horse vs. hand, (b) varietal.

Cabbage (a) varietal, (b) field, (c) deep vs. shallow, (d) diseases.

A number of varieties of corn, cotton, and forage crops are also under trial.

The permanent improvements provided for by the last Legislature in their appropriation of \$2,500 will consist of a good barn, improvements in fencing, additions to the office building, development of the water system for irrigation purposes, and the addition of some much needed tools, wagons, and work stock. The fencing has been finished and the erection of the barn is well under way. The additions to the well and water system are also nearly complete. When these improvements have been finished, the Beeville Station will be in very much better position to conduct the necessary experiments than heretofore.

THE TROUPE STATION.

The Troupe Station was located by the Board during the fall of 1901, and active operations were begun on March 20, 1902, under the supervision of a committee appointed by the council for that purpose. The cultivated ground was so stumpy that a great deal of time and labor was expended in an effort to clear the land for the experiments planned, which has materially delayed the experimental work at the Troupe Station. No buildings have thus far been erected on account of the fact that plans have not been completed by the architect appointed by Governor Sayers to perform this work, but we are assured that these plans will be ready for presentation to the Troupe committee on June 12th. A fairly complete outfit of tools, machinery, wagons, mules, and miscellaneous farm equipment, together with necessary office supplies, have been purchased and are now in use at the Troupe Station. The total amount expended for these items of permanent improvement to date is \$———. An ordinary dug well has been sunk near the site chosen for the buildings, but the water supply obtained is so brackish that it is totally unfit for use so that the committee has arranged to put down a bored well to a depth of 150 or 200 feet and to case out the surface water.

The experiments under way include the following horticultural and field crops: Varietal test of peaches, four acres; varietal test of grapes, two acres; varietal test of strawberries, two acres; varietal test of blackberries, one acre; varietal test of dewberries, one acre; varietal test of tomatoes and fertilizer work with tomatoes, four acres; total, fourteen acres.

Field experiments with corn, cotton, alfalfa, and forage plants are as follows: Corn fertilizers, thirty applications, three acres; cotton, varieties, ten selected varieties, one acre; cotton fertilizers, thirty applications, four acres; grass and forage plant experiments, varieties and culture, two and one-half acres; total, ten and one-half acres.

Total acreage in experiments at Troupe, twenty-four and one-half acres.

Few final results can be expected from the experimental crops planted at Troupe this season under the adverse conditions encountered when we first began operations during the latter part of March.

CO-OPERATIVE EXPERIMENTS.

We are carrying co-operative wheat and forage crop experiments in connection with the United States Department of Agriculture, as per systematic contract agreed upon for the past year, dividing the expense of such work between this experiment station and the United States Department of Agriculture. There are four principal grass experiment stations and three principal wheat experiment stations; the grass stations being located near Tyler, Dallas, College, and San Antonio; the wheat stations near Abilene, Dallas, and San Antonio. The forage crop experiments are essentially the same as described in our last report, but the wheat experiments are new, consisting of a test of many varieties of imported wheats from Russia, Egypt, and Northern Africa, and reports received from some of these varieties have shown very valuable drouth resisting qualities. Besides the wheat and forage crop experiments at the places above indicated, we have a large number of co-operative farmers

who have planted these wheats and forage crops, from whom reports are expected. The collation and publication of these reports will prove highly instructive to farmers of the several sections of the State interested in the introduction of better varieties of forage crops and improvement over the seed wheats now being used. A bulletin was published upon our co-operative work with forage crops during the past season, which has met with very hearty approval.

NEW EXPERIMENT STATIONS.

The new station located at Troupe, provided for at the last session of the Legislature, will, when under proper headway, meet the requirements of nearly all of the counties composing East Texas, but it was very evident from the interest manifested by the people of all sections of the State in the procurement of the necessary legislation for this one station and in their efforts at Fort Worth to have this one station located in their particular section, that the progressive farmers of the State appreciate the need for additional experiment stations, such as have heretofore been recommended in my reports.

Each distinct soil section of the State should be provided with one of these experiment stations, and its financial support should be sufficient to enable it to conduct co-operative experiments with the farmers of that region, so as to be able to suggest the most feasible means of fertilizing crops, protect them against insect pests, select varieties of seed and fruits suited to that particular soil and climate, and inspire the farming element of that section with the spirit of progress and the development of their latent agricultural resources. For each station not less than \$5,000 per annum should be provided for its equipment and maintenance, which amount should prove sufficient to enable the work to be started under favorable conditions and secure trustworthy results in the immediate future.

ORGANIZATION.

The resignation of the Station Horticulturist and his assistant and their retirement from the institution suggests the advisability of reorganizing this and other features of our station work in such manner that the station officers may visit their particular experimental interests at the sub-stations and on the co-operative farms of the State without detriment to class work. This provision has already been secured to the Agriculturist, he being a station man solely. A similar provision might be made in filling the positions of Horticulturist and his assistant by assigning one of these men entirely to college work and the other to station work. For a similar reason, it is advisable that the Station Chemist should have no connection with class instruction and fertilizer work—all three of which are now being carried in a single department of the college and station. With the growth of class work recently provided for in the college catalogue and the normal development of fertilizer analyses, resulting from the extensive growth of horticultural products, the mind and energy of the station officer having these in charge will be largely diverted from station investigations, as has been the case for some years past. The growth of the experiment station work in the State necessitates a larger draft upon the Director's time than heretofore and it is advisable that next year he should attempt less teaching, although it is absolutely

necessary for the safety of the class work and the experiment station that a single supervisory head should stand over both of these branches of agriculture in this institution. I, therefore, recommend that the title of the Professor of Agriculture and Director of Experiment Stations be changed to that of Dean of Agriculture and Director of Stations, and that a Chair of Agriculture be established, which officer should be more or less subject to the advice and direction of the Dean of the agricultural course. This system has been found necessary in a number of our large institutions where the work has developed beyond the primary form, as is the case in Texas. This college stands second in the number of students in institutions having a regular agricultural course as compared with all others in the United States, and this experiment station having developed very large interests here and in many other communities of the State, the constant supervision of an executive officer is demanded. The Dean of Agriculture could arrange to deliver a certain number of lectures to each class at his convenience during each term, without materially interfering with the ordinary system of lectures. After this manner he would prove a medium of communication between the agricultural masses of the State and the class room system employed in the college.

The best results have been secured from such organizations as that above proposed, and is notably evident in our strongest stations and colleges: Examples, Iowa, Wisconsin, Ohio, New York, and Minnesota.

The provision suggested for the election of a competent Dean and Director will entirely remove the question as to the need of a Station Council. Permit me to say that the views expressed in my last report upon the duties and prerogatives of the Station Council have, I believe, been fully borne out by the experience of the past year, since an inspection of the minutes of the Council and of the committee created by the Council plainly shows that the Director is called upon to discharge the executive duties of the station and in nearly all matters of business the Council must defer to his judgment. This is true to such a large extent that the Council's actions serve to hamper rather than to help the Director in the discharge of business. The continuation of a Council with legislative powers will tend to cause delays and prove a stumbling block in the dispatch of station business, without in any way increasing its efficiency.

FARMERS' INSTITUTES.

The extension of the college work to the village and rural sections of our State by the application of scientific methods to the operation of farm, garden, and ranch is a most important feature of our work and should now receive careful consideration at the hands of the college authorities. The Experiment Station is publishing at intervals important and valuable reports upon the investigations conducted in behalf of agricultural enterprises of the Southwest, but these bulletins are so few and far between in their appearances that the station must of necessity fail to satisfy the constant demand for agricultural information unless its publications are supplemented by a voluminous correspondence and by that system of propaganda known as "farmers' institute work."

The vast fund of well-established agricultural facts derived through scientific investigation during the past half century can be successfully given to the people upon the farms in but one way—by the farmers' insti-

tute movement. Heretofore, our college and station work has not been planned in such manner as to permit station officers to respond to the demands made for lecture work before farmers and a large number of requests received have been declined on that account. Consequently, no efforts to systematize the institute work in the past could prove successful.

The opportunity now presented in the changes that must be made in our station organization will, I hope, be fully utilized by the Honorable Board by setting aside one man in each section, or department, of the station work where two or more men have heretofore been available in the joint college and station work, to represent that particular station interest as a responsible officer in charge, subject to the advice and supervision of the Director of Stations. The financial obstacles can be easily overcome and the many benefits that will accrue to the experiment station work proper, the State station investigation, co-operative experiments, and institute work will fully compensate for any temporary friction that might arise because of such changes.

In my last annual report, I mentioned the fact that I intended assigning certain new accounts pertaining to the Troupe Station to the chief clerk in my office, Mr. K. K. Hooper, for which I intended allowing him the same compensation as had heretofore been paid him by Mr. Carson, the Superintendent of the Farm, for keeping the accounts of that department and which last accounts he would, perforce, discontinue keeping. Mr. Hooper has been keeping these Troupe accounts since March 1, 1902, for which I recommend that \$60 be appropriated to pay him from the Troupe fund up to July 1, 1902. I also recommend that in providing for expenditures from the sub-station funds for the ensuing year \$180 be set aside as payment for Mr. Hooper's services for keeping the sub-station accounts in my office.

Permit me to say, in closing, that I feel and shall always feel a sincere interest in the progress and development of agricultural education in this State as influenced by the agricultural and scientific features of the Agricultural and Mechanical College and the Experiment Station, with which I have been identified for nine years past and which will continue to have my earnest support in whatever capacity I may be employed.

Very respectfully submitted,

J. H. CONNELL,

Professor of Agriculture and Director of Station.

DEPARTMENT OF BOTANY.

COLLEGE STATION, TEXAS, September 22, 1902.

President David F. Houston, Agricultural and Mechanical College of Texas.

SIR: As Professor of Botany, I have hereby the honor of transmitting to you my report of the Department of Botany for the session of 1901 and 1902.

During the session, instruction in botany was given as prescribed by the Catalogue. In the case of the fourth class the time given to botany was increased above that of the previous session from three to five periods

a week for the winter term, and two periods a week for the spring term. The subject taught in the winter term was ecology or plant geography; in the spring term, morphology, which was not finished, and hence is to be continued in the fall term of third class next session.

The great difficulty experienced in giving scientific instruction to the fourth class agriculture is due to the insufficient preparation, with which the students of that class are allowed to enter the college, many of them being unable to read the rather primary text-books put before them. As a consequence, such students soon become discouraged and demoralized, and therefore prove an obstacle to good order. The necessity is apparent that the standard for admission into the fourth class agriculture should be raised so as to be, at least, on the par with that of the engineering courses.

It is my opinion that a fair knowledge of systematic botany, especially of the flowering plants, is one of the chief parts of an agricultural education, but to this subject only the spring term of the third class is allotted. As a consequence the students graduate without having acquired the ability to pursue this study independent of the teacher. I, therefore, recommend that, as soon as the conditions will permit it, systematic botany be continued in the second and first classes, that the students may have an opportunity of becoming acquainted with our common grasses and forage plants, as well as the trees and shrubs that constitute our forest flora.

I highly recommend the present relation of the Department of Botany to the campus and the grounds, because it will, in due time, put the department in a position to give practical as well as theoretical instruction with reference to the various kinds of plants, with which the student of scientific agriculture ought to be familiar, outside of the mere agricultural and horticultural crops. I, therefore, hope that all aid will be given to carry the work now undertaken in this regard to success, and that the Department of Botany will in the near future be remembered with large and well arranged conservatories for scientific and practical work, and also increased help in the teaching force, which, even now, is becoming a need.

Knowing that but a small amount of money is on hand for the ensuing year, I hereby enumerate only the most urgent necessities and ask an appropriation to cover same.

First. That the rooms in the Agricultural and Horticultural Building, asked for on March 24, 1902, through Acting President Whitlock, be turned over to the Department of Botany.

Second. That the following appropriations be made:

| | |
|---|----------|
| Tables and seats for the new section room and laboratory..... | \$150 00 |
| For charts | 30 00 |
| For herbarium and laboratory materials..... | 60 00 |
| | <hr/> |
| | \$240 00 |

The seats which I here have in mind for the new section room are of the cheap, home-made kind, such as are found in Prof. Fountain's room, and recommended to me by him and others as entirely satisfactory.

As the campus and the grounds about the buildings were put in my charge on October 19, 1901, I have hereby the honor to furnish you with a report of the work done.

From the inventory, lately sent in to your office, you will see that I received the campus lacking even the commonest tools with which to do the work, nor was there handed over to me any supply of young trees for planting, except some oaks which had remained in nursery rows, uncultivated and uncared for for about four years, and, therefore, quite unsuitable for transplanting. The best of these were, however, transplanted into avenues where needed. The majority of them, weakened as they were, may not survive the present drouth.

This lack of all kinds of supplies forced me to expend a much larger part of my appropriation for tools, pots, hot beds and a host of petty necessities than I expected on the day I promised the Board to take charge of the campus.

Up to the middle of March, I dared not, for fear of making too much of an inroad on my funds, employ but one hand, namely, Mr. Aug. Thomson, as foreman; and in order to reclaim the grounds for cultivation before spring, I had to, so far as my duties in the section room and laboratory would allow, make a work hand of myself.

Seeing that there were neither sufficient means nor time for any extensive permanent improvements, it was decided that the work be confined to clearing out the worst of the brush on the campus and the planting of borders and beds with hardy, quickly flowering ornamental plants. These beds have been planted three times; twice the plants were destroyed by cut-worms and other insects, unusually abundant this year, and lastly, by the drouth.

As the campus is now in a condition not very creditable to the institution, and as plans for extensive improvements have already been made and will be submitted to you and the Board by Prof. Nagle, I recommend an appropriation to cover the following items necessary to enable me to begin work according to this plan:

| | |
|--|------------|
| Wages for foreman, \$60 per month..... | \$ 720 00 |
| Wages for one hand, \$27 per month, twelve months..... | 324 00 |
| Wages for one hand, \$27 per month, four months..... | 108 00 |
| Two mules | 200 00 |
| Feed for mules at \$12 per month..... | 144 00 |
| One road scraper..... | 250 00 |
| Twenty-four sashes for hot beds..... | 84 00 |
| One two-horse plow | 12 00 |
| Two harnesses with collars, etc..... | 20 00 |
| Flower pots | 50 00 |
| Wheel barrow | 4 00 |
| New cultivator | 14 00 |
| One diamond for cutting glass..... | 5 00 |
| Seeds, plants, repairs, freight, etc..... | 200 00 |
| | <hr/> |
| | \$2,135 00 |

A tool house is also badly needed, but as there is a considerable amount of old lumber on hand out of which this can be constructed I am unable to estimate the cost, and hope that this very important item will be considered.

I here take pleasure in acknowledging to you the faithful and efficient service rendered by Mr. August Thomson, who has acted as foreman and gardener, and I hope that I may be placed in a position to pay him \$50

dollars per month in the future, which is barely the wages paid other expert laborers on the place.

I also take the liberty of informing you of the fact that my own work for the campus has, during the last session, been rendered gratuitously.

Very respectfully,

H. NESS,

Professor of Botany.

DEPARTMENT OF CHEMISTRY.

President David F. Houston, Agricultural and Mechanical College of Texas.

SIR: In presenting a brief biennial report of the Department of Chemistry, I am glad to say, first, that our new chemical laboratory is nearly complete, and will soon be ready for occupancy. The increased space and convenience which it will afford will greatly facilitate the work of the department. For the first time in the history of the institution, we shall be able to give that laboratory training so essential as an accompaniment to class room instruction. However, owing to the increased cost of material and labor, the building committee was forced to expend the entire appropriation for the erection of the building, and the purchase of a few permanent fixtures. It was thought wise to do this, and secure as far as possible a building adequately built and arranged for the uses intended. But to make its service complete, it should be properly equipped with the best appliances for instruction and investigation. This equipment will cost about five thousand dollars, and that sum should be appropriated for this purpose. I believe the amount can easily be secured when the request is properly explained to the Legislature.

With the rapid development of the industrial conditions of the State—both in the mechanic arts and agriculture—increased demand for time and work will be placed upon all the departments of this college; but more especially upon the departments of industrial science. To meet this logical expectation on the part of the people of the State it will be necessary to have additional help in the Department of Chemistry. The force which we now have is inadequate to do our present work. The increased analytical work resulting from the official control for the State of commercial fertilizers and commercial poisons alone requires the services of two men. The evidence of the future growth of the Station, with its demands on the Chemical Department, should call for the time of at least two men; while college work proper will require at least two more. I think the sum of three thousand dollars should be appropriated for this purpose, and trust that you will ask the Legislature for that amount. Now that we have the building, it should be properly equipped, both with material and men, to complete the efficiency of the department.

Respectfully submitted.

H. H. HARRINGTON,

Professor of Chemistry and State Chemist.

DEPARTMENT OF CIVIL ENGINEERING.

COLLEGE STATION, TEXAS, June 7, 1902.

President David F. Houston, Agricultural and Mechanical College.

SIR: For the session just closing, the work of instruction in the Department of Civil Engineering has been conducted in the usual manner, as laid down in the curriculum published in the Catalogue. The work done by the students has been slightly better than usual, and there have been fewer failures. A number of the weaker members dropped out during the year, which accounts, in part, for the small number of those who failed at the end of the session.

At the beginning of the year there were nineteen members of the first class and one elective in a single subject. Also one of the instructors attended recitations during the fall term. Of the nineteen men who hoped to graduate at the end of the year one was requested to leave by his classmates and three others who saw no hope of getting through this year dropped out to accept positions. Of the fifteen remaining one failed in one subject with me and two others in other departments, so that only twelve will be graduated next week. Of these twelve several have already accepted positions. Four go to Mexico and one to Arizona. This is the first time that our men have been called for before graduation, though they have had no difficulty in securing positions afterwards.

In the second class thirty-two names have appeared on the rolls as receiving grades, in addition to which two young ladies have taken most of the work for this year. At the close of the session there are twenty-four members in the class, counting the young ladies. They have all done very good work with one exception. In addition to the civil engineering students, agricultural students of the second class and mechanical engineering students of the first class, together with three electives from the first class, agricultural course, have received instruction in plane surveying.

In the third class thirty-seven members received instruction in one subject during the spring term. Of these, two dropped out before the end of the term.

All the instruction work has been done by me, and in addition I have had considerable work on Faculty committees and on a number of committees which had been assigned work by the Board of Directors. During the fall and winter terms I was able to do it all fairly well, but during the spring term I have had to carry twenty-seven and one-half hours of instruction and practice work in addition to having the theses of a dozen young men to direct. These latter have not received the attention they deserved simply because I have not had time for them. One of the committees to which I was assigned by the Board was to have had charge of mapping the grounds of the Prairie View Normal School. This work I have been unable to touch. Nor have I been able to complete the map of the college campus. This latter lacks only some drafting work, however. For next spring it is probable that there will be thirty-four or thirty-five hours instruction work which I may be able to carry if no

outside work is assigned me. If I am required to do such work, however, I shall have to have assistance in the instruction work.

For the conduct of my classes in field practice I need more engineering instruments. During the twelve years I have been here I have been able to add only one instrument for field use—an engineer's Y level. The others were all here when I came, and I have been told were purchased second-hand in the first place. On the inner plates of one of them is scratched a note stating that it was returned to the factory for repairs in 1871. This instrument is as good as the others, all of which have had to have some repairs from time to time.

We need equipment for a testing laboratory. Our cement testing machines—one of which has been purchased since I came here—does very well, but we need a large general machine of about 100,000 pounds capacity, which, together with a suitable driving engine, would cost about \$1,600. There should be a hydraulic laboratory also, but so far we have been able to do nothing along this important line. More space is needed, and I would suggest that a new building be asked for, to be occupied by the Departments of Civil Engineering and Drawing. At least \$50,000 for a building and \$5,000 for equipment will be needed.

For running expenses for the coming year, I ask that at least \$500 be set aside for this department. Out of this I should wish to purchase an additional transit at a cost of about \$250 to \$275, the remainder to be used for current expenses.

Respectfully submitted,

J. C. NAGLE,

Professor of Civil Engineering.

DEPARTMENT OF DRAWING.

COLLEGE STATION, TEXAS, June 7, 1902.

To the Honorable Board of Directors, Agricultural and Mechanical College of Texas.

GENTLEMEN: I have the honor to report for the Department of Drawing as follows:

First. During the session of 1901 to 1902 instruction was given as announced in the Catalogue, but on account of the unusually large attendance it was necessary at times to take two classes in the same room at one time, and for one teacher to instruct as many as fifty students at one time. In these cases it was not possible to obtain as good results as were desired.

Second. Having been authorized by you to secure applications for a new position, Instructor in drawing, I submit the names of five gentlemen, who seem to me to be best suited for the position out of about twelve who wrote to me.

I respectfully recommend that you increase Mr. Love's salary from \$800 to \$1,000, to enable him to take a summer course at the Art Institute of Chicago. Mr. Love and I will be able to take all the advanced work in drawing and the new instructor will have to assist only in the bookkeeping and in the elementary free hand and mechanical drawing,

and I recommend that you appoint one of the five named gentlemen for the new position. I have asked Mr. Hanszen and Mr. Mitchell to be here Commencement.

It will be necessary to have additional room for the department, and I respectfully request that you assign to this department either the two rooms on the first floor of the Main building, which Prof. Ness expects to vacate, or the two rooms on the second floor of the Main Building, which Prof. Harrington expects to vacate.

Third. The appropriation of \$250 made for this department last year has been partially expended, as follows:

| | |
|-----------------------|----------|
| Books | \$ 11 40 |
| Furniture | 68 23 |
| Instruments | 111 80 |
| Running expense | 36 71 |
| | <hr/> |
| | \$228 14 |

I respectfully request an appropriation of \$250 for the session beginning September, 1902.

The accompanying inventory shows the value of the property in the department to be \$2,369.73.

Respectfully submitted,

F. E. GIESECKE,
Professor of Drawing.

HEALTH DEPARTMENT.

COLLEGE STATION, TEXAS, September 16, 1902.

President David F. Houston, Agricultural and Mechanical College of Texas.

SIR: In response to your request, I beg leave to submit the following report:

I. SEWAGE SYSTEM.

The system for the disposal of sewage is undoubtedly a very great improvement over former arrangements, but it does not meet all the demands of the situation, and, in order to properly safeguard the health of the students and all others connected with the institution, should be extended at the earliest possible date. There are many buildings on the campus yet to be connected with the sewer and the extension of the system to these is essential. Bath rooms with hot water supply, closets, etc., should be placed on each floor of every building occupied by the students as a dormitory. Under the present arrangement, the unavoidable exposure of the students in reaching the closets, etc., may result detrimentally. It is certainly not conducive to good health.

The present arrangement and plumbing of the closets, etc., for students is insufficient, inconvenient, unsightly and unsanitary, and really should be condemned.

II. DORMITORIES.

If not overcrowded, the rooms of the various halls are very comfortable. There are very few rooms, however, which are large enough to serve as quarters for more than two students without danger of injury to health and physical development. As suggested above, each hall should be provided with bath rooms, hot water supply, closets, etc.

III. DRAINAGE.

The location of the school with reference to drainage is very good. All gutters, however, should be paved with stone, vitrified brick, asphalt or some similar material. This would not only facilitate the removal of all superfluous surface water, but would add very much to the appearance and healthfulness of the place, by preventing the rank growth of vegetation with which most of the gutters are at present so choked as to greatly impair their efficiency. This vegetation should be promptly removed and the gutters kept clean.

IV. INFIRMARY.

There is room for great improvement at the infirmary. The building is not constructed in a way favorable to the maintenance of an even temperature. We need good stoves or other suitable means of heating the wards. We are very much in need of comfortable chairs, as the infirmary at present has practically no chairs.

Bodily cleanliness is very essential to good health and to the proper treatment of diseased conditions. We have in the infirmary two good bath tubs but there is no arrangement for supplying them with hot water. The need for a good water heater and plumbing is most urgent.

There is also need of instruments, sterilizer, etc. At present the infirmary has not the facilities for even the most simple surgical operation. Nor are there facilities for uranalysis, blood examination or any other method for the scientific diagnosis of diseases.

V. DISINFECTING PLANT.

No more imperative necessity exists than that of a proper room or building and adequate apparatus for the thorough disinfection of mattresses, blankets and other bedding after their use in cases of sickness.

VI. TRAINED NURSE.

We need the services of a competent, trained nurse. Only by the employment of one can the invalid student receive the proper care and necessary attention.

VII. PHARMACY AND PHARMACIST.

The present method of procuring and dispensing drugs is far from satisfactory. It has been found practicable to keep only a limited stock of drugs on hand and at times this stock is not sufficient to meet the demand. The physician is expected to visit the patient and prescribe.

compound and dispense the drugs. In my opinion, it would be far better if we could secure on the campus a branch of some well established and reliable drug store. In this way we would have the advantage of a skilled pharmacist, and a complete stock of drugs which could be drawn upon to meet any emergency. A small stock of toilet articles, simple home remedies, and such side lines as are usually carried by first-class drug stores would be a great convenience to the students and residents of the campus.

In the event such an arrangement cannot be made, I consider it necessary that a competent pharmacist should be employed.

VIII. MEDICAL ATTENTION AND NURSING.

I believe that the medical fees paid by the students should be applied only for the medical attention and nursing necessary when they are ill and that they should be required to purchase in each instance their own prescriptions and other medicine.

IX. LABORATORY AND INSTRUCTION.

I think it would be advisable to establish a laboratory for research in bacteriology, sanitary science and hygiene, and to instruct the students in the principles and practical application of these studies. Instruction in sanitary architecture and engineering and in hygienic methods of living would be of lasting benefit to every student.

Respectfully submitted,

HOWARD M. LANHAM,

Physician and Health Officer.

DEPARTMENT OF HISTORY.

President Houston, Agricultural and Mechanical College of Texas.

DEAR SIR: The work of this department is carried on by myself, with the assistance of Professor South, who is, however, also assistant in the Department of Languages. This year the fourth class was so large as to require division into seven sections, of which number Professor South could take only five. This gave him fifteen periods to be devoted to my department. I do not know how many periods were occupied with his work in Dr. Bittle's department. During the fall and winter months, I had six periods with the fourth class, and twelve periods with the third. During the spring term, I had the same six periods with the fourth, eight with the third, four with the second, and two with the first; in all, twenty periods. The sections have, of course, varied greatly in number during the year, some of them running up to thirty-nine or forty, others falling below twenty; but the average would be, I should say, thirty for the fuller sections and twenty-five for the lighter.

The department has had under instruction during the year: in the first class, twenty-five cadets; in the second class, forty-four; in the

third, one hundred and twenty-six; in the fourth, two hundred and twelve. Some of these were students in elective courses.

After the coming year, there will be a change in the nature of my work with the higher classes. The engineering cadets of the first and second classes, who have now to take history in the spring term, will have no history in their course. The agricultural and horticultural cadets of the same classes, who now take no history, will have that as one of their options, taking it three times a week through all the terms. This course is not yet laid down in the catalogue; and I shall be glad to have your co-operation in mapping it out. It is, of course, impossible to judge in advance as to the probable number of those electing history. Heretofore these departments have had but few cadets in the higher classes.

Now, as to the needs of the department:

I think it needs the services of an assistant, not bound to duty in any other department.

The maps now in use are old and worn. I recommend the purchase of MacCoun's Historical-Geography Charts: Europe—Ancient and Classical, 18 charts, for the assistant's room; Europe—Mediæval and Modern, 19 charts; and The United States, 20 charts, for my room. The cost of each set, as sold by Silver, Burdett & Company, is \$15.

The department would be much the better for a library of its own, selected with the view of aiding the student to realize history. I am well aware that seminary work in the department hardly accords with the aims of an industrial institution; and, therefore, do not on that ground lay claim to a special library. Yet, should any student develop taste and capacity in that direction, it would be hard that he should lack even meagre facilities.

Respectfully submitted,

CHARLES WOODWARD HUTSON,
Professor of History.

DEPARTMENT OF HORTICULTURE.

COLLEGE STATION, TEXAS, September 16, 1902.

President David F. Houston, Agricultural and Mechanical College of Texas.

SIR: I herewith submit the following report, which will give you some idea of the condition of the Horticultural Department and of its needs for the next two years. The department as it now exists is in a systemless, chaotic condition. To remedy this condition many changes must be made. These changes cannot take place unless sufficient funds are provided by the Legislature.

The following are some of the urgent needs:

I. PEACH ORCHARDS.

Peach growing is the most important horticultural industry in the State. On account of the large profits that have been reaped in the last few years thousands are now embarking in the industry. The majority

of these men are totally ignorant of the first principles of fruit growing. Unless they are enlightened upon the subject, many of them are doomed to make signal failures. It is the duty of this college to prevent as far as possible these failures by supplying information that is necessary to successful peach growing. For this purpose it is very necessary that two new peach orchards should be set out as soon as the ground can be prepared and the trees secured. One of these orchards should be used for demonstrating the value of proper methods of thinning, pruning, tilling, and spraying. The other should be devoted to variety tests. The ground upon which these trees should be placed is now covered by the remnants of two worn-out orchards. The cost of getting these orchards successfully started will approximate \$500.

II. VINEYARD.

The only vineyard we have on the grounds is a total wreck. This not only reflects upon the college, but is an injustice to every one in the State who is interested in grape growing. It is plainly the duty of the Horticultural Department to get a new vineyard started this spring, if funds for such purpose can be possibly secured. A vineyard which will answer all necessary purposes can be started for \$300.

III. PLUM ORCHARD.

There is no plum orchard on the grounds of the Agricultural and Mechanical College. When we consider the outlook for the successful growing of this fruit in Texas, the importance of such an orchard can hardly be overestimated. At the present time the plum industry in this State is of scarcely any importance at all. With the proper attention there is no reason why plum growing in this State should not be made to rival that of the peach. It is the duty of this department to establish an orchard wherein a majority of all the most prominent varieties can be tested. The beginning of such an orchard will cost approximately \$300.

IV. PEAR AND APPLE ORCHARDS.

Radical changes will have to be made in both pear and apple orchards. Apple growing in several sections of the State has assumed large proportions. The future success of the industry, however, is threatened by the failure of many of the growers to give their trees the proper care. The orchard here should be gotten in such a condition that a practical demonstration could be made of the value of the proper care of the trees. Both the apple and the pear orchard could be gotten in very good condition for \$200.

V. PERSIMMONS.

During the last Farmers' Congress a great deal of discussion was devoted to persimmon culture. The essence of this discussion was that the persimmon could be made of immense value to Texas horticulture if the proper varieties could be gotten and the proper treatment given them. It is unreasonable to expect any individual man to carry on experiments to solve this problem. The Horticultural Department of the Agricultural and Mechanical College should undertake at once to demonstrate

the value of persimmon growing to the people of Texas. One hundred dollars should be appropriated for carrying on experiments with persimmons.

VI. MANURE SHED.

It is a common expression among the farmers who visit here that the Agricultural and Mechanical College is located on the poorest ground in the State. This may, or may not, be true, but it is certain that very poor crops are produced upon the grounds. This can be remedied in a large measure by a liberal application of barnyard manure. In order for this manure to be of the greatest service to the soil, it should be first placed in a shed and well rotted. A plan has been made for such a shed, and it has been found that one can be built for about \$75. There is very little doubt but that this shed would pay for itself in one year.

VII. IRRIGATION.

There are about 450 persons on the campus. The amount of vegetables that have been grown heretofore to supply these people is insignificant. The lack of vegetable growing here at the college is in a large measure due to the prevailing drouths. With comparatively little expense two garden spots can be irrigated so that vegetables can be grown to supply the people for the larger part of the year. These garden spots can be irrigated for approximately \$350.

VIII. LABOR AND TEAMS.

The labor in the Horticultural Department is entirely inadequate. There is only one man to care for about sixty acres, besides attending to the greenhouse both winter and summer. There should be at least one more regular laborer in the department. There is only one team with which to cultivate the horticultural grounds. It is very necessary to the successful cultivation of the grounds that at least \$400 should be available for another laborer and \$200 for another team.

IX. SMALL FRUITS.

There have never been any extensive experiments carried on in the State with small fruits. With \$200 experiments could be made that would undoubtedly be of great value to the fruit growers of Texas.

X. TOMATOES.

Next in importance to peach growing in the State is the tomato industry. It is a serious reflection upon the college that no bulletin has ever been published upon this subject. At least \$100 should be spent for immediate investigation in this line.

XI. SPECIAL EXPERIMENTS.

With the small number of experiment stations that we now have it is impossible to solve all the problems that are constantly arising in different sections of our great State. There are some sections of the State

where only one or two problems are to be solved, and it would be unwise to establish in such sections permanent experiment stations. Then there are problems constantly arising that can be solved within a few months or, at least, in a year's time. For the solution of such problems an appropriation of at least \$5,000 should be made. With such a fund insect pests, fungous diseases, variety tests of vegetables, etc., could be dealt with outside of the regular experiment stations. It often happens that truck growers suffer serious losses from some sudden disease or insect pest. If at such times a specialist could be sent to the infested regions, thousands of dollars could often be saved to the persons concerned.

COLLEGE.

I. LIBRARY.

A carefully selected library is one of the requisites to the success of the Horticultural Department. It is very essential that \$100 be spent now for books, and that at least \$200 be appropriated for use within the next two years.

II. FORESTRY.

There are very few people who realize the importance of forestry to their State and nation. The State of Texas has great tracts of forests. As great as they are, they are being rapidly diminished by the lumbermen. The time will soon come when, if not prevented, the lumbermen will practically rid the State of its great forests. It is impossible to tell what effect such a devastation would have upon a State located as Texas is. There are large sections of our State that are semi-arid at the present time. The destruction of our forests will only help to increase the suffering that is now annually felt from the effects of the drouth.

In many of the States of the Union the agricultural colleges have organized Schools of Forestry, which are doing valuable work in the protection of their forests. The establishment of a Department of Forestry at the Agricultural and Mechanical College of Texas would be of immense value to not only the present, but the future welfare of our State. An appropriation of at least \$3,000 for the establishment of such a department should be made.

III. MYCOLOGY.

At the present time the college is without the assistance of a mycologist. This will unquestionably result in serious disappointment to hundreds of fruit and truck growers whose trees and vegetables will suffer from disease. There is hardly a day passes but that the department gets a letter from some portion of the State inquiring about some disease the nature of and remedy for which is unknown to the person concerned. A good mycologist would be worth thousands of dollars annually to the State of Texas. At least \$1,000 should be appropriated for the employment of an Instructor in Mycology.

SUMMARY.

| | |
|-------------------------------|-------------|
| Two peach orchards..... | \$ 500 00 |
| Vineyard | 100 00 |
| Plum orchard | 300 00 |
| Pear and apple orchards..... | 200 00 |
| Persimmons | 100 00 |
| Manure shed | 75 00 |
| Irrigation | 350 00 |
| Labor and teams..... | 600 00 |
| Small fruits | 200 00 |
| Tomatoes | 100 00 |
| Special experiments | 5,000 00 |
| Library | 200 00 |
| Forestry | 3,000 00 |
| Mycology | 1,000 00 |
| Total..... | \$11,725 00 |

Respectfully submitted,

ED. J. KYLE,
Professor of Horticulture.

DEPARTMENT OF LANGUAGES.

To the President of the College.

SIR: I have the honor to report that during the year (1901-1902) a total of 121 matriculates entered the classes of the Language Department, all but about forty-five at the opening of the session. Of these some fifty-nine entered the German classes, forty-two the French, about twelve the Spanish, and eight the Latin classes.

The present strength of these classes is: I German, 14; II German, 11; III German, 21; I French, 7; II French, 10; III French, 16; I Spanish, 2; II Spanish, 6; Latin, 4. Total, 91.

The average progress in work has been in accord with the two and one-half years' course, the somewhat crowded C. E. curriculum, and three periods per week of recitation. The great majority of the language students is from the Civil Engineering Department. Some few have done remarkably well, those graduating having a working knowledge of their respective languages which will compare favorably with the record of other institutions giving more time to the study.

The merging of the Horticultural Department into the agricultural demoralized the Latin course, the former having heretofore demanded Latin or German of its classes. The Agricultural Department requiring no foreign language.

The Department of Languages needs and could do better work with more comfortably fitted section rooms. It needs a larger room and full

set of writing chairs or desks. Exercises done under the instructor's inspection, embodying the principles taught, and written instead of oral translations insure previous study and greater accuracy.

I may be permitted to say, in this connection, that too much encouragement cannot be granted language study in an institution of this character, and as the English cannot be thoroughly learned without some study of its cognates, the Latin and German should be fostered with a view to general culture apart from their scientific value.

The following is an inventory of property in control of the Language Department, and a statement of its actual value:

| | |
|--|---------|
| Littre, French Dictionary, 5 volumes..... | \$25 00 |
| Flügel, German Dictionary, 3 volumes..... | 15 00 |
| Lopez & Bensley, Spanish Dictionary, 1 volume..... | 5 00 |
| Monlau, Etymological Spanish Dictionary, 1 volume..... | 5 00 |
| Blickensdorfer typewriter | 15 00 |
| Total..... | \$65 00 |

Respectfully submitted,

T. C. BITTLE,
Professor of Languages.

LIBRARY.

To the Board of Directors, through the President.

SIRS: I have the honor to submit the following report as Librarian. The appropriation of \$1,000 has been spent for periodicals, books, and book cases under the direction of the Faculty, except about \$120, which will be absorbed by an outstanding order for books which the dealers have been slow in getting together.

I recommend that the usual appropriation of \$165 be made for periodicals and incidental expenses for next year, leaving the legislative appropriation of \$1,000 intact for books.

In order that the library may be kept open, say three hours a day, I recommend the establishment of a library scholarship to be filled by a graduate student, the appointment to be made by the Librarian. The holder of such a scholarship should be required to pursue graduate studies under the direction of the Faculty. As his compensation I suggest \$150 a year. The services of the student assistant who is paid \$50 a year could then be dispensed with.

Very respectfully,

CHARLES PURYEAR,
Librarian.

DEPARTMENT OF MECHANICAL ENGINEERING.

COLLEGE STATION, TEXAS, May 29, 1902.

To the Board of Directors, Agricultural and Mechanical College of Texas.

GENTLEMEN: The report of the Department of Mechanical Engineering for this year will necessarily be more in the nature of an account of observations rather than an account of work done.

It became necessary for me to take up the President's duties comparatively early in the session. Sometime before the death of our late President his health necessitated his absence from the college from time to time, and toward the latter part of his life the routine of the work fell upon others.

Thus my work with the classes was broken into more or less from the beginning. However, the classes were carried with as little interruption as possible until early in December. Then, as all the duties of the higher office had to be assumed, it became necessary for a change in the class room.

I gave Professor Kerr the higher classes, and Mr. Rollins relieved him of much of regular class work, and much praise is due these two young men for the manner in which they came to the rescue of the department and carried on the work.

Professor Kerr has not only carried on the regular class-room work with the two highest classes, but has successfully inaugurated a series of tests with the senior class. We have been striving, for a number of years, to get our students up to the standard which would admit of this important addition to the course, and the present graduating class is the first one to raise the standard. For this work I believe Professor Kerr should receive substantial recognition, both in a pecuniary way and in receiving the title of Associate Professor of Mechanical Engineering.

The work performed by Mr. Rollins, although of a character not quite so high, has been undertaken cheerfully and carried to a successful finish. In fact both of these young men have not only accepted this increased work without a murmur, but have volunteered to undertake greater tasks if necessary, thus showing their interest in the work and loyalty to the college. And to my mind it is this spirit which should be fostered and rewarded whenever it is found.

During the winter term Mr. Gideon, who was in charge of the carpenter shop, accepted a position in the public schools of Columbus, Georgia, and his place was filled by Mr. W. I. Bryan, who graduated here in 1900. The latter has carried on the work successfully to the end of the session. But feeling that he needs more knowledge in that particular branch of the work, in order to make it a complete success, he intends taking a summer course at the Lewis Institute of Technology, of Chicago, and to inspect a number of important shops in that city and vicinity.

In this connection I might say here that Mr. Rollins has planned a trip to New York and vicinity and a summer course in experimental engineering at Stevens Institute of Technology.

The department's needs for the coming year will be covered by an

appropriation similar to the one given last year, i. e., \$1,000. And I would recommend, as before, that a part of the sum be given from the M. and S. Fund.

Respectfully,
R. H. WHITLOCK,
Professor of Mechanical Engineering.

DEPARTMENT OF MATHEMATICS.

COLLEGE STATION, TEXAS, June 6, 1902.

To the Board of Directors, through the President.

SIRS: I have the honor to submit the following report for the Department of Mathematics.

The subjects taught are as follows:

Fourth class, agricultural course, 5 sections, algebra.

Fourth class, engineering course, 2 sections, algebra, geometry.

Third class, algebra, geometry; 4 sections.

Second class, geometry, algebra, trigonometry; 3 sections.

First class, analytic geometry, mechanics, calculus; 1 section.

On account of recent changes in the entrance requirements, the work of the third and fourth classes, engineering course, was this year almost identical.

The teaching force of the department remains the same, except that in the winter and spring terms Mr. Sowder taught two sections.

There have been two graduate students working in the department.

Very respectfully,

CHARLES PURYEAR,
Professor of Mathematics.

MILITARY DEPARTMENT.

President David F. Houston, Agricultural and Mechanical College of Texas.

SIR: I have the honor to submit the following report of my department for the session ending June, 1902.

DISCIPLINE.

Discipline is in a fairly satisfactory condition, but not what I hope to have it in another year. One very hopeful sign in this regard has been shown by the cadets voluntarily reporting their classmates for dishonorable offenses; by this means, one first class man, reported by his classmates for cheating at examination, was dismissed, and two cadets of the third class for stealing.

There is an unfortunate provision in the regulations that allows college officers discretion in reporting offenses of the cadets. This practically puts the entire matter of enforcing regulations upon the Commandant. While there are many arguments on both sides of this question, it seems to me that if any discretion is to be exercised it would be better to place

it with the President rather than leave it with the instructors with their different constructions.

There are some regulations impossible to enforce without the assistance of the college officers. I might mention courtesies required, which if not insisted on by the officers will not be received; wearing citizens clothes, smoking, profane language, disturbances, throwing, making marks with chalk, especially in public buildings, etc.; many minor offenses subsversive to discipline that are committed with comparative safety in the absence of the Commandant.

I cannot close this subject without mentioning, with gratitude, the loyal support I have received from my first class officers, without which I would have been helpless. They have rendered possible what little success I have had in maintaining discipline.

FLAG STAFF.

The college is sadly in need of a flag staff, the one here being rotten and liable to fall at any time. I have in my possession plans and specifications for an iron pipe staff seventy-five feet high for which the contract price put up in St. Louis, Mo., was \$162. We also need two small staffs on the main building to fly the United States and Texas flags side by side on gala days as has been the custom.

OFFICE WORK.

By slightly changing the methods in bookkeeping I found in my office, I now have a system that seems well-nigh perfect. I can, at once, without loss of time, tell what reports have been made against any cadet, who made them, what explanation, if any, was made and what action taken by myself or higher authority. This system saves many complaints and satisfies the cadets, some of whom are inclined to forget about their explanations and think they are unjustly punished.

My record of furloughs and special permits are kept on the same general plan, making a cadet's record available at once. The cadets I found in my office, detailed as clerks, were very unsatisfactory, and, in many ways, complete failures. Upon my recommendation the President Pro Tem. kindly came to my rescue and gave me a civilian clerk. Since then my condition of servitude has been greatly ameliorated, the faithful attendance of one man being much more satisfactory than several at odd times, and the expense scarcely any greater. Owing to the importance of my work, the large amount of it, and the satisfactory manner in which it is now being performed, I earnestly recommend that this service be continued.

DORMITORIES.

Switches should be put in to disconnect the dormitories from the rest of the electric light system. The Discipline Committee has recommended this as a matter of discipline. Lights after taps and before reveille are a constant source of disturbance. The saving in fuel would soon pay for the expense. The entire system is now turned on at 4:30 o'clock in the morning because the cooks in the Mess Hall need the light. Lockers are needed in all the dormitories but Foster Hall. This hall is the only one in which any provision has been made to hang up and put away wearing

apparel. Regulations forbid driving nails in the walls. In strict compliance with the regulations, cadets would be compelled to keep their clothes in their trunks. It is scarcely necessary to add that the rule is not enforced. I sent to West Point for plans and specifications of the lockers used there and find that a good one without doors, suitable for two cadets can be made for about \$4.00. With doors, and a trifle larger, the contract price at West Point was \$8.00.

The dormitories need a thorough overhauling, repairing, plastering, and painting.

WATCHMAN.

Formerly four cadets were employed as night watchmen, two dividing the night alternately. I found the service unreliable and unsatisfactory, and upon my recommendation the President employed a civilian for me, who has been on this duty for over three months. In view of the importance of this work, the large territory to cover, the prolific source of fires from our present system of heating with wood stoves, I recommend that the number of watchmen be increased to four. In this connection attention is called to the fact that there is no insurance on the college buildings and little on the property; also to the fact that at a place of this size some police protection is needed and that the watchmen can be used for that purpose.

ARMS AND EQUIPMENTS.

On my arrival here I found the arms and equipments in use in the corps in very bad shape, and after the loss of some time and patience I finally succeeded in getting the entire lot replaced by a new outfit. This number (230) will do for this term, but anticipating a larger attendance next fall, requisition for 230 more rifles and equipments has been made. These will probably be ready for issue in the fall.

SINKS.

While perhaps not strictly within my province, I would like to call attention to the unsatisfactory arrangement of the sinks. They are a prolific source of disturbance, an excuse for cadets to leave their halls, places where the worst elements in the corps congregate to hold forth. Besides, they are inconvenient and unsightly. I would recommend that they be put into the dormitories, one on every floor, the same as is done in all modern buildings. Many unsanitary nuisances would be stopped and inconveniences remedied.

EXPENDITURES.

I was allowed \$200 for my department, which amount proved sufficient for the incidental expenses of the office. Generally, it has been expended for stationery, flags, and a typewriter. I found an old Caligraph typewriter when I came here that was worn out. I purchased a new machine that cost \$75 delivered. It has been a great addition to my office. All reports of delinquents and demerits are now duplicated on it, guaranteeing against loss.

Very respectfully,

FRANK P. AVERY,
Captain U. S. A.

DEPARTMENT OF PHYSICS.

COLLEGE STATION, TEXAS, September 22, 1902.

President David F. Houston, Agricultural and Mechanical College of Texas.

SIR: For the session of 1901-1902 I have the honor to make the following report of the Department of Physics:

Work in this department was confined to the third class, all courses, and the fourth class, engineering courses. The number of hours taught per week, and the number of students taught, were: Fall term, 28 hours—fourth class, 42 students in two sections; third class, 116 students in four sections. Winter term, 25 hours—fourth class, 37 students in two sections; third class, 88 students in four sections. Spring term, 19 hours—fourth class, 31 students in two sections; third class, 69 students in three sections.

This was the first year of the new curriculum, and the percentage of failures to total number of students in the engineering fourth class was somewhat higher than I could have wished. I think, however, a number reported as having failed should be able to remove their conditions at the opening of the next session.

As the new curriculum goes into effect, and the old one out of effect, one year at a time, the past year's work has been very heavy in this department, and for the same reason next year's work will be comparatively light, thus giving me opportunity for study which was impossible this year. After next session the new courses will be so far in effect that the work in this department will be more settled.

The new course adopted by the Faculty call for physical laboratory work in the second class. At present this department is without laboratory equipment, and, to give this work, the laboratory must be fitted up before September, 1903. The present section room can seat only forty-five students, and the present apparatus room has space for no more dust-proof cases. A section room of the proper size and a laboratory can be fitted up only when more room is provided for this department.

Understanding that Prof. Nagle has asked for space for the C. E. Department in Main Building, room to be vacated by Profs. Harrington and Francis, I most earnestly join with him in this request, and further ask that, if the request can be granted, the space now occupied by the C. E. Department be assigned to this department, and the sum of \$500 be appropriated for making necessary changes (including a sloping floor and seats for a large section room). Four of the rooms now occupied by these two departments were obtained by running board partitions in the dining room of the old Mess Hall, and these partitions can be easily removed.

If thus enabled to carry out plans I now have in mind, I think it will be comparatively easy in a year or two to add a course in electrical engineering, but any one familiar with the requirements of such a course will agree with me that it is folly to think of establishing it until the department is prepared to do its work properly.

For these reasons, I therefore request for next session minimum appropriations as follows:

| | |
|--|-------------------|
| To equip laboratory, ready for session of 1903-1904..... | \$ 500 00 |
| To purchase new apparatus in physics and electricity and for running expenses | 500 00 |
| To make necessary changes in enlarging this department..... | 500 00 |
| Total | <u>\$1,500 00</u> |

I regard these as being the very minimum amounts that should be appropriated for these purposes, especially for the second item, and if it is possible I respectfully request that these amounts be increased.

In addition to requests from the College Surgeon and various cadets for radiographs of injured and broken limbs, I receive several such requests every year from the physicians of Bryan. Heretofore, with the consent of President Foster, no charge has been made for such work, but as there is always some slight expense to the department, and danger of serious injury to the tube, I recommend that hereafter all persons not connected with the college for whom such work is done be charged a fee,—the amount of which shall be determined by myself after consultation with the President—one-half of which shall go to the department and one-half to myself.

In order that the Board may be more familiar with the needs of this department, I respectfully request that they visit it at their convenience.

Very respectfully,

D. W. SPENCE;

Professor of Physics.

DEPARTMENT OF VETERINARY SCIENCE.

COLLEGE STATION, TEXAS, September 15, 1902.

President David F. Houston, Agricultural and Mechanical College of Texas.

SIR: I have the honor to submit the following report on the condition and needs of the Veterinary Department:

The work of this department has been very seriously impaired by the lack of suitable buildings and equipment. These have been partially supplied by the erection of a laboratory building which will soon be completed. We have found it impossible with the means at hand to provide for all of the important features of veterinary work. There is yet no means of handling large animals infected with contagious diseases in a manner that would be free from danger to others. For a number of years we have felt the need of a quarantine barn located some distance from our other barns, in which we could confine and keep under observation animals affected with such diseases as glanders, anthrax, black-leg, tetanus, hog-cholera, rabies, etc. It is needless to more than remark that after these diseases have been observed by our students, or after the experiments with them have closed, that such animals should be killed, their bodies destroyed by cremation, and the stalls thoroughly disinfected. Such work can be done only during the winter season when there are no flies to spread the infection. I estimate the cost of such a building complete at \$2,000.

Our Experiment Station work has increased in volume and importance year by year, until we are again in need of more barns, fences, gates, feed troughs and wells. As you know, my attention has been directed almost entirely to the Texas fever problem. As a result more than two thousand fine cattle, brought into the State for breeding purposes, have been subjected to the inoculation process under direction of this Station, with a death rate of less than ten per cent. from fever. There is now a pressing need of better accommodations for this work on the college grounds. We must have quarantine pens in which to hold the animals during the fever stages, and tick-infested proving grounds adjoining them. I estimate that it will require \$3,000 to supply these.

There are other problems before us which remain untouched because there is no one to take them up. I may mention the anthrax problem, the lung-worm, blind staggers of horses, the buzzard nuisance, as suitable subjects for scientific examination. These will require more men, more apparatus and more experiments for their solution. Texas, with a live stock wealth of ten million cattle, two and one-half million hogs, two million sheep, and two million horses can well afford to protect them by maintaining laboratories of scientific research in animal diseases.

Respectfully submitted,

M. FRANCIS,

Professor of Veterinary Science.

FINANCIAL STATEMENT.

GENERAL INVENTORY OF COLLEGE PROPERTY—SEPTEMBER 1, 1902.

| | |
|--|--------------|
| Two thousand four hundred and sixteen acres of land..... | \$ 48,320 00 |
| Main College Building, brick, four stories..... | 100,000 00 |
| Mess Hall Building..... | 25,000 00 |
| Gathright Hall | 38,500 00 |
| Pfeuffer Hall, brick, two stories..... | 11,500 00 |
| Austin Hall, brick, two stories..... | 11,000 00 |
| Ross Hall, brick, three stories..... | 20,000 00 |
| Assembly Hall, brick..... | 27,500 00 |
| Machine, carpenter and blacksmith shop, brick..... | 11,600 00 |
| Foster Hall, brick, four stories..... | 28,000 00 |
| Agricultural and Horticultural Hall, brick..... | 31,000 00 |
| Infirmery, frame | 4,000 00 |
| Artesian well, natatorium, standpipe and waterworks..... | 30,000 00 |
| Residence for President..... | 4,500 00 |
| Five residences for professors, brick..... | 15,000 00 |
| Fifteen residences for professors and assistants, frame..... | 18,000 00 |
| Five residences for laborers..... | 2,500 00 |
| Greenhouse and propagating room..... | 300 00 |
| Tool room and shed, Horticultural Department..... | 300 00 |
| Creamery building, one-half interest..... | 500 00 |
| Large barn for cattle..... | 2,000 00 |
| Large barn for work stock..... | 2,000 00 |
| Bull barn and pens, three-fourths interest..... | 300 00 |

| | |
|--|--------------------|
| Piggery | \$ 400 00 |
| Cattle shed and stanchions..... | 1,000 00 |
| Veterinary hospital building..... | 700 00 |
| Dipping pool for cattle..... | 100 00 |
| Fencing, entire | 7,000 00 |
| Underground cisterns, brick..... | 5,000 00 |
| Electric light plant, ice works and laundry..... | 20,000 00 |
| Telephone line to Bryan, poles and wiring..... | 500 00 |
| Sewer system | 8,000 00 |
| Warehouse and artillery shed..... | 400 00 |
| Chemical-Veterinary laboratory | 31,000 00 |
| Total | <hr/> \$506,020 00 |

EQUIPMENT BY DEPARTMENTS.

| | |
|-------------------------------|--------------------|
| Agricultural Department | \$ 1,644 20 |
| Botanical Department | 973 79 |
| Campus | 394 21 |
| Chemical Department | 3,647 35 |
| Civil Engineering | 4,010 00 |
| Drawing | 2,369 73 |
| English | 203 00 |
| Entomology | 1,048 25 |
| Farm | 14,203 80 |
| History | 71 00 |
| Horticulture | 2,818 58 |
| Languages | 53 00 |
| Mechanical Engineering | 10,099 76 |
| Military | 781 65 |
| Mathematics | 316 60 |
| Physics | 2,653 62 |
| Steam plant | 15,847 65 |
| Subsistence | 4,389 73 |
| Veterinary Science | 3,343 73 |
| Total | <hr/> \$ 69,769 65 |

LIST OF PROFESSORS, ASSISTANTS AND EMPLOYES, AND THE ANNUAL SALARY PAID EACH.

| | |
|--|-------------|
| D. F. Houston, President..... | \$ 3,500 00 |
| R. H. Whitlock, Professor of Mechanical Engineering..... | 2,250 00 |
| Chas. Puryear, Professor of Mathematics..... | 2,250 00 |
| H. H. Harrington, Professor of Chemistry..... | 2,250 00 |
| J. C. Nagle, Professor of Civil Engineering..... | 2,100 00 |
| M. Francis, Professor of Veterinary Science..... | 1,800 00 |
| F. E. Giesecke, Professor of Drawing..... | 2,000 00 |
| T. C. Bittle, Professor of Languages..... | 1,800 00 |
| C. W. Hutson, Professor of History..... | 1,800 00 |
| F. P. Avery, Professor of Military Science and Commandant..... | 570 00 |
| W. B. Philpott, Professor of English..... | 1,400 00 |
| H. Ness, Professor of Botany..... | 1,200 00 |
| D. W. Spence, Professor of Physics..... | 1,400 00 |

| | |
|--|--------------|
| W. D. Gibbs, Dean of Department of Agriculture and Director of Stations..... | \$ 3,000 00 |
| F. S. Johnston, Professor of Agriculture..... | 1,800 00 |
| E. J. Kyle, Instructor in Horticulture..... | 1,300 00 |
| R. F. Smith, Associate Professor of Mathematics..... | 1,400 00 |
| A. L. Banks, Associate Professor of Mathematics..... | 1,400 00 |
| P. S. Tilson, Associate Professor of Chemistry..... | 1,400 00 |
| J. G. Harrison, Bookkeeper..... | 1,200 00 |
| J. A. Baker, Secretary..... | 1,200 00 |
| E. W. Kerr, Assistant Professor of Mechanical Engineering. | 900 00 |
| N. Fraenkel, Assistant in Chemistry..... | 1,000 00 |
| H. W. South, Associate Professor of Languages..... | 1,200 00 |
| A. C. Love, Assistant Professor of Drawing..... | 900 00 |
| C. P. Fountain, Associate Professor of English..... | 1,200 00 |
| H. M. Lanham, Physician and Health Officer..... | 2,500 00 |
| E. C. Green, Instructor in Horticulture..... | 1,100 00 |
| B. Shisa, Steward..... | 1,800 00 |
| ——— McNutt, Instructor in Shops..... | 720 00 |
| ———, Instructor in Shops..... | 720 00 |
| J. W. Carson, Superintendent of Farm..... | 1,500 00 |
| O. D. Hargis, Assistant Professor of Chemistry..... | 800 00 |
| E. E. Townes, Instructor in English..... | 900 00 |
| ——— Mitchell, Instructor in Drawing..... | 750 00 |
| C. S. Potts, Instructor in History and Economics..... | 900 00 |
| Total | \$ 53,910 00 |

THE ENDOWMENT FUND—USED TO PAY SALARIES AS FOLLOWS—1900-1901.

| | |
|--|--------------|
| L. L. Foster, President..... | \$ 3,000 00 |
| M. Francis, Professor of Veterinary Science..... | 500 00 |
| T. C. Bittle, Professor of Languages..... | 1,800 00 |
| C. W. Hutson, Professor of History..... | 1,800 00 |
| Commandant of Cadets..... | 570 00 |
| W. B. Philpott, Professor of English..... | 1,200 00 |
| P. S. Tilson, Associate Professor Chemistry..... | 1,010 00 |
| H. Ness, Professor of Botany..... | 400 00 |
| D. W. Spence, Professor of Physics..... | 1,000 00 |
| J. G. Harrison, Bookkeeper..... | 400 00 |
| J. W. Carson, Superintendent of Farm..... | 500 00 |
| H. W. South, Associate Professor of Languages..... | 1,200 00 |
| J. A. Baker, Secretary..... | 900 00 |
| Total | \$ 14,280 00 |
| Interest on endowment..... | \$ 14,280 00 |

MORRILL FUND—1900-1901.

| | |
|--|-------------|
| Chas. Puryear, Professor of Mathematics..... | \$ 2,250 00 |
| R. H. Whitlock, Professor of Mechanical Engineering..... | 2,250 00 |
| H. H. Harrington, Professor of Chemistry..... | 1,125 00 |
| J. C. Nagle..... | 2,100 00 |
| M. Francis, Professor of Veterinary Science..... | 100 00 |

| | |
|---|---------------------|
| F. E. Giesecke, Professor of Drawing..... | \$ 2,000 00 |
| R. H. Price, Professor of Horticulture and Mycology..... | 900 00 |
| J. H. Connell, Professor of Agriculture..... | 900 00 |
| R. F. Smith, Associate Professor of Mathematics..... | 1,400 00 |
| A. L. Banks, Associate Professor of Mathematics..... | 1,400 00 |
| P. S. Tilson, Associate Professor of Chemistry..... | 290 00 |
| H. Ness, Professor of Botany..... | 100 00 |
| C. H. Alvord, Assistant Professor of Agriculture..... | 1,300 00 |
| S. E. Gideon, Instructor in Shops..... | 675 00 |
| C. E. Burgoon, Assistant Professor of Mechanical Engineering..... | 900 00 |
| E. W. Kerr, Assistant Professor of Mechanical Engineering..... | 750 00 |
| To purchase blackboards, etc..... | 310 00 |
| Total | \$ 18,750 00 |
| Morrill Fund received from United States government..... | \$ 18,750 00 |
| Morrill Fund expended, as above..... | \$ 18,750 00 |

THE ENDOWMENT FUND—USED TO PAY SALARIES AS FOLLOWS—1901-1902.

| | |
|---------------------|---------------------|
| President | \$ 3,075 01 |
| M. Francis | 592 59 |
| T. C. Bittle..... | 1,800 00 |
| C. W. Hutson..... | 1,800 00 |
| F. P. Avery..... | 570 00 |
| W. B. Philpott..... | 1,200 00 |
| H. Ness | 955 55 |
| D. W. Spence..... | 1,370 37 |
| J. G. Harrison..... | 466 68 |
| H. W. South..... | 1,200 00 |
| J. A. Baker..... | 1,050 00 |
| J. W. Carson..... | 124 98 |
| P. S. Tilson..... | 74 82 |
| Total | \$ 14,280 00 |

THE MORRILL FUND FOR 1901-1902.

| | |
|---|---------------------|
| R. H. Whitlock..... | \$ 2,250 00 |
| Chas. Puryear | 2,250 00 |
| H. H. Harrington..... | 1,125 00 |
| J. C. Nagle..... | 2,100 00 |
| F. E. Giesecke..... | 2,000 00 |
| R. H. Price..... | 900 00 |
| J. H. Connell..... | 900 00 |
| R. F. Smith..... | 1,400 00 |
| A. L. Banks..... | 1,400 00 |
| P. S. Tilson..... | 1,300 00 |
| Assistant Professor of Agriculture..... | 1,300 00 |
| Instructor in Shop..... | 800 00 |
| E. W. Kerr..... | 900 00 |
| Mechanical Department | 125 00 |
| Total | \$ 18,750 00 |

AGRICULTURAL AND MECHANICAL COLLEGE.

Maintenance and Support Account.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|----------------|-------------|----------------------|-----------------------------|----------|
| Aug. 30, 1900 | 280 | Salary | L. L. Foster | \$ 41 66 |
| | 281 | Salary | K. K. Hooper | 15 00 |
| Sept. 1, 1900 | 300 | Wood | J. H. Suber | 335 77 |
| | 302 | Lumber | Garth, Howell & Webb | 57 27 |
| | 303 | Repairs | Grice & Zimmerman | 7 70 |
| | 304 | Telegram | W. U. Telegraph Co. | 54 |
| | 305 | Iron pipe | Cahill, Swift Mfg. Co. | 56 34 |
| | 306 | Repairs | Grice & Zimmerman | 7 50 |
| | 307 | Feed | R. M. Gordon & Co. | 2 10 |
| | 308 | Feed | C. F. Moore | 4 45 |
| | 309 | Lumber | Garth, Howell & Webb | 1 22 |
| | 310 | Labor | E. E. Worthing | 8 50 |
| | 311 | Telegrams | W. U. Telegraph Co. | 3 65 |
| | 312 | Telegrams | W. U. Telegraph Co. | 4 61 |
| | 313 | Labor | W. D. Foster | 5 00 |
| | 314 | Telephoning | L. L. Foster | 3 00 |
| | 315 | Telegrams | W. U. Telegraph Co. | 2 05 |
| | 316 | Freight | H. & T. C. Ry. Co. | 7 80 |
| | 317 | Freight | H. & T. C. Ry. Co. | 1 00 |
| | 318 | Machine extras | F. W. Heitman & Co. | 43 18 |
| | 319 | Lever | Nordburg Mfg. Co. | 2 89 |
| | 320 | Leather | J. T. Hanway | 8 80 |
| | 321 | Carbon brushes | J. P. Hunter | 1 20 |
| | 322 | Oil | W. P. Oil Co. | 4 50 |
| | 323 | Labor | George Grupe et al. | 316 25 |
| | 324 | Labor | N. Carson et al. | 49 00 |
| Sept. 30, 1900 | 446 | Salary | L. L. Foster | 41 65 |
| | 447 | Salary | J. C. Edmonds | 24 44 |
| | 448 | Salary | H. Ness | 37 04 |
| | 449 | Salary | D. W. Spence | 29 63 |
| | 450 | Salary | K. K. Hooper | 15 00 |
| | 451 | Salary | A. C. Love | 44 44 |
| | 452 | Salary | A. M. Ferguson | 22 22 |
| | 461 | Wood | J. H. Echols | 150 97 |
| | 462 | Repairs | J. T. Hanway | 6 60 |
| | 463 | Repairs | J. T. Hanway | 8 25 |
| | 464 | Dairy supplies | H. M. Wilson | 1 40 |
| | 465 | Dairy supplies | H. M. Wilson | 10 80 |
| | 466 | Oil | W. P. Oil Co. | 8 08 |
| | 467 | Oil | W. P. Oil Co. | 2 10 |
| | 468 | Oil | W. P. Oil Co. | 5 78 |
| | 469 | Repairs | Weber Gas Eng. Co. | 2 66 |
| | 470 | Repairs | Grice & Zimmerman | 2 90 |
| | 471 | Repairs | B. F. Avery & Son | 57 |
| | 472 | Repairs | Keating I. & M. Co. | 50 |
| | 473 | Salt | Howell Bros. | 6 90 |
| | 474 | Seed | Steckler Seed Co. | 5 20 |
| | 475 | Labor | R. C. Kerr | 35 00 |
| | 476 | Labor | R. C. Kerr | 35 00 |
| | 477 | Labor | R. C. Kerr | 1 50 |
| | 478 | Labor | R. C. Kerr | 15 16 |
| | 479 | Labor | A. Smoot et al. | 94 75 |
| | 480 | Labor | T. R. Carson et al. | 101 35 |
| | 481 | Labor | T. R. Carson et al. | 61 50 |
| | 482 | Labor | W. F. Hutson | 2 30 |
| | 483 | Ice | John Ingram | 3 20 |
| | 484 | Express | W. F. Express Co. | 35 |
| | 485 | Express | W. F. Express Co. | 65 |
| | 486 | Express | W. F. Express Co. | 45 |
| | 487 | Freight | H. & T. C. Ry. Co. | 1 35 |
| | 488 | Labor | G. Henry et al. | 23 00 |
| Oct. 1, 1900 | 491 | Postage | W. C. Boyett | 35 84 |
| | 590 | Subscription | J. Schutze | 10 00 |
| | 592 | Feed | Felton Bros. | 169 45 |
| | 593 | Feed | R. M. Gordon & Co. | 3 85 |
| | 594 | Telegrams | Bryan Tel. Exchange | 7 50 |
| | 595 | Buckets | J. A. Myers | 46 85 |
| | 596 | C. B. cloth | Webb Bros. | 20 |
| | 597 | Express | W. D. Foster | 5 60 |
| | 598 | Express | W. D. Foster | 50 |
| | 599 | Feed | C. F. Moore | 3 90 |
| | 600 | Lumber | Garth, Howell & Webb | 13 30 |
| | 601 | Mattresses | Lottman Bros. | 125 00 |
| | 602 | Shoeing mules | Grice & Zimmerman | 1 00 |
| | 603 | Insurance | H. C. Robinson | 45 00 |
| | 604 | Express | J. J. Pastoriza | 35 |

Maintenance and Support Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-------------------------|----------------------------|---------|
| Oct. 1, 1900 | 605 | Erasers | T. Haswell..... | 0 75 |
| | 606 | Books..... | McMillan Co..... | 5 00 |
| | 607 | Books..... | McMillan Co..... | 4 95 |
| | 608 | Pruning knives..... | Mayer & Grosh..... | 7 53 |
| | 609 | Labor..... | A. Jones et al..... | 9 50 |
| | 610 | Labor..... | A. H. McCurry..... | 4 95 |
| | 611 | Freight..... | H. & T. C. Ry. Co..... | 3 44 |
| | 612 | Laundry supplies..... | V. B. Schutze & Co..... | 9 75 |
| | 613 | Hardware..... | J. A. Myers..... | 2 95 |
| | 614 | Laundry supplies..... | Troy L. Machinery Co..... | 13 95 |
| | 615 | Oil..... | W. P. Oil Co..... | 46 53 |
| | 616 | Acid..... | M. H. James..... | 1 00 |
| | 617 | Laundry supplies..... | Alden Spears Sons..... | 101 66 |
| | 618 | Shop supplies..... | W. J. Drug Co..... | 1 65 |
| | 619 | Shop supplies..... | J. A. Myers..... | 4 10 |
| | 620 | Forge repairs..... | B. F. Sturtevant Co..... | 2 50 |
| | 621 | Clock..... | J. M. Caldwell..... | 6 00 |
| | 622 | Office supplies..... | T. Haswell..... | 80 |
| | 623 | Webb Bros..... | Towels..... | 1 00 |
| | 624 | Express..... | W. F. Express Co..... | 1 50 |
| Oct. 12, 1900 | 711 | Labor..... | Grube et al..... | 447 70 |
| | 712 | Telegram..... | W. U. Telegraph Co..... | 26 |
| | 713 | Express..... | W. F. Express Co..... | 82 |
| | 714 | Freight..... | H. & T. C. Ry. Co..... | 12 65 |
| | 715 | Labor..... | H. P. Matthews..... | 3 15 |
| | 716 | Labor..... | Kinghorn et al..... | 61 00 |
| | 717 | Labor..... | N. Carson..... | 4 00 |
| | 718 | Labor..... | F. E. Stevenson..... | 21 25 |
| | 719 | Express..... | W. F. Express Co..... | 1 60 |
| | 720 | Telegrams..... | W. U. Telegraph Co..... | 8 10 |
| | 721 | P. O. box rent..... | T. Haswell..... | 1 50 |
| | 722 | Lime..... | W. Winter..... | 1 50 |
| | 723 | Express..... | W. F. Express Co..... | 50 |
| | 724 | Express..... | W. F. Express Co..... | 60 |
| | 725 | Labor..... | A. Smoot et al..... | 106 00 |
| | 726 | Labor..... | T. R. Carson et al..... | 73 00 |
| Oct. 15, 1900 | 729 | Telegrams..... | W. U. Telegraph Co..... | 42 |
| | 728 | Express..... | W. F. Express Co..... | 25 |
| | 739 | Pigs..... | P. N. Drake..... | 42 50 |
| | 796 | Tuning piano..... | Thos. Goggan..... | 5 00 |
| | 797 | Oil..... | W. P. Oil Co..... | 2 15 |
| | 798 | Lumber..... | Garth, Howell & Webb..... | 3 17 |
| | 799 | Lumber..... | Garth, Howell & Webb..... | 3 17 |
| | 800 | Material..... | George Jenkins..... | 43 55 |
| | 801 | Office supplies..... | J. J. Pastoriza..... | 7 50 |
| | 802 | Class books..... | J. J. Pastoriza..... | 14 10 |
| | 803 | Erasers..... | T. Haswell..... | 1 50 |
| | 804 | Office supplies..... | Clarke & Courts..... | 1 00 |
| | 805 | Toilet paper..... | Cahill, Swift Mfg. Co..... | 34 30 |
| | 806 | Repairs..... | Deering Harvester Co..... | 8 70 |
| | 807 | Library..... | Audubose Pub. Co..... | 1 00 |
| | 808 | Hardware..... | J. A. Myers..... | 15 40 |
| Oct. 30, 1900 | 809 | Library..... | B. & L. Optical Co..... | 3 80 |
| | 810 | Library..... | John Wiley & Sons..... | 2 97 |
| | 811 | Subscription..... | Power Pub. Co..... | 1 00 |
| | 812 | Shop material..... | J. P. Hunter..... | 13 75 |
| | 813 | Machinery supplies..... | Fairbanks Co..... | 11 25 |
| | 814 | Repairs..... | W. M. C. Hill..... | 118 47 |
| | 815 | Repairs..... | Webb Bros..... | 3 37 |
| | 816 | Repairs..... | A. Necco..... | 1 00 |
| | 817 | Postage..... | W. C. Boyett..... | 3 00 |
| | 818 | Insurance..... | A. D. McConnico..... | 22 50 |
| | 825 | Wood..... | J. H. Suber..... | 253 20 |
| | 827 | Hauling..... | L. Battle..... | 29 10 |
| | 869 | Salary..... | L. L. Foster..... | 41 65 |
| | 870 | Salary..... | J. C. Edmonds..... | 36 66 |
| | 871 | Salary..... | H. Ness..... | 55 55 |
| | 872 | Salary..... | D. W. Spence..... | 44 44 |
| | 873 | Salary..... | W. D. Foster..... | 15 00 |
| | 874 | Salary..... | A. C. Love..... | 66 66 |
| | 875 | Salary..... | F. K. McGinnis..... | 17 50 |
| | 884 | Labor..... | K. K. Hooper..... | 15 00 |
| | 885 | Express..... | W. F. Express Co..... | 5 20 |
| | 886 | Express..... | W. F. Express Co..... | 30 |
| | 887 | Labor..... | A. Necco..... | 2 00 |
| | 892 | Labor..... | Houston Cornice Works..... | 6 60 |
| | 893 | Express..... | W. F. Express Co..... | 1 65 |
| | 894 | Postage..... | W. C. Boyett..... | 10 60 |

Maintenance and Support Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-------------------------|--------------------------------|---------|
| Oct. 30, 1900 | 895 | Freight | H. & T. C. Ry. Co..... | \$ 0 90 |
| | 896 | Freight..... | H. & T. C. Ry. Co..... | 3 85 |
| | 897 | Labor..... | Grupe et al..... | 300 00 |
| | 898 | Express..... | W. D. Foster..... | 5 00 |
| | 899 | Freight..... | H. & T. C. Ry. Co..... | 5 52 |
| | 900 | Express..... | W. F. Express Co..... | 2 45 |
| | 901 | Freight..... | H. & T. C. Ry. Co..... | 1 30 |
| | 902 | Express..... | W. F. Express Co..... | 35 |
| | 903 | Express..... | W. F. Express Co..... | 2 10 |
| | 904 | Freight..... | H. & T. C. Ry. Co..... | 2 34 |
| | 905 | Freight..... | H. & T. C. Ry. Co..... | 3 39 |
| | 906 | Labor..... | Winther et al..... | 86 50 |
| | 907 | Express..... | W. F. Express Co..... | 8 50 |
| Nov. 10, 1900 | 1036 | Office supplies..... | T. Haswell..... | 3 80 |
| | 1037 | Office supplies..... | T. Haswell..... | 3 00 |
| | 1038 | Lumber..... | G. S. Parker..... | 2 42 |
| | 1039 | Machinery repairs..... | J. A. Myers..... | 1 85 |
| | 1040 | Stationery..... | Bryan Eagle..... | 6 75 |
| | 1041 | Feed..... | C. F. Moore..... | 13 95 |
| | 1042 | Feed..... | C. F. Moore..... | 18 00 |
| | 1047 | Postage..... | W. C. Boyett..... | 10 60 |
| | 1048 | Machinery supplies..... | J. P. Slocomb & Co..... | 1 50 |
| | 1049 | Tools..... | F. W. Heitman & Co..... | 45 62 |
| | 1050 | Lumber..... | Garth, Howell & Webb..... | 17 93 |
| | 1051 | Repairs..... | Buffalo Forge Co..... | 16 17 |
| | 1052 | Salt..... | Howell Bros..... | 11 50 |
| | 1053 | Tallow..... | W. C. Boyett..... | 20 65 |
| | 1054 | Freight..... | National Ammonia Co..... | 90 |
| | 1055 | Ammonia..... | National Ammonia Co..... | 54 30 |
| | 1056 | Oil..... | W. P. Oil Co..... | 15 37 |
| | 1057 | Seed..... | P. Henderson & Co..... | 28 32 |
| | 1058 | Rake..... | Finley Rake Co..... | 12 00 |
| | 1059 | Books..... | A. T. Dela Mare..... | 1 50 |
| | 1060 | Books..... | Ginn & Co..... | 3 55 |
| | 1061 | Books..... | Pacific Rural Press..... | 2 00 |
| | 1062 | Telephone..... | Bryan Tel. Exchange..... | 2 50 |
| | 1063 | Office supplies..... | T. Haswell..... | 3 40 |
| | 1064 | Chairs..... | W. M. C. Hill..... | 65 72 |
| Nov. 22, 1900 | 1065 | Hardware..... | J. A. Myers..... | 6 65 |
| | 1069 | Wood..... | J. H. Suber..... | 275 70 |
| | 1101 | Lawn mower..... | E. E. Flippin..... | 6 25 |
| | 1102 | Office supplies..... | Maverick Clark Co..... | 1 05 |
| | 1103 | Hardware..... | Globe Wernicke Co..... | 19 00 |
| | 1104 | Steam heater..... | Herndon Mfg. Co..... | 67 50 |
| | 1105 | Hardware..... | J. A. Myers..... | 9 40 |
| | 1106 | Office supplies..... | W. C. Boyett..... | 30 |
| | 1107 | Castings..... | Beaumont Iron Works..... | 3 58 |
| | 1108 | Repairs..... | Brown & Sharpe Co..... | 2 15 |
| | 1109 | Soap..... | Howell Bros..... | 1 00 |
| | 1110 | Supplies..... | J. A. Myers..... | 36 75 |
| | 1111 | Office supplies..... | T. Haswell..... | 75 |
| | 1112 | Traps..... | Cole Bros..... | 50 |
| | 1113 | Hand hole..... | Pennsylvania Boiler Works..... | 2 75 |
| | 1114 | Repairs..... | Albert Webb Co..... | 6 00 |
| | 1115 | Oil..... | W. P. Oil Co..... | 7 58 |
| | 1116 | Putty and lime..... | Garth, Howell & Webb..... | 2 50 |
| | 1117 | Babbitt metal..... | F. W. Heitman & Co..... | 3 29 |
| | 1118 | Lumber..... | Garth, Howell & Webb..... | 2 91 |
| | 1119 | Office supplies..... | T. Haswell..... | 1 10 |
| | 1120 | Hardware..... | J. A. Myers..... | 34 55 |
| | 1121 | Hardware..... | J. A. Myers..... | 85 03 |
| | 1122 | Saw..... | F. W. Heitman & Co..... | 6 00 |
| | 1123 | Oil..... | W. P. Oil Co..... | 2 60 |
| | 1124 | P. P. freight..... | Cahill, Swift Mfg. Co..... | 5 35 |
| | 1195 | Telegram..... | W. U. Telegraph Co..... | 26 |
| | 1196 | Labor..... | R. Washington..... | 6 00 |
| | 1197 | Labor..... | W. S. Johnson..... | 1 00 |
| | 1198 | Express..... | W. D. Foster..... | 5 00 |
| | 1199 | Freight..... | H. & T. C. Ry. Co..... | 13 13 |
| | 1200 | Telegrams..... | W. U. Telegraph Co..... | 76 |
| | 1201 | Freight..... | H. & T. C. Ry. Co..... | 2 88 |
| | 1202 | Express..... | W. F. Express Co..... | 2 95 |
| | 1203 | Express..... | W. F. Express Co..... | 75 |
| | 1204 | Express..... | W. F. Express Co..... | 90 |
| | 1205 | Freight..... | H. & T. C. Ry. Co..... | 14 47 |
| | 1206 | Freight..... | H. & T. C. Ry. Co..... | 11 50 |
| | 1207 | Freight..... | H. & T. C. Ry. Co..... | 1 39 |
| | 1208 | Freight..... | H. & T. C. Ry. Co..... | 2 29 |

Maintenance and Support Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|--------------------------|------------------------------|---------|
| Nov. 22, 1900 | 1209 | Freight..... | H. & T. C. Ry. Co..... | \$ 7 70 |
| | 1210 | Freight..... | H. & T. C. Ry. Co..... | 3 20 |
| | 1211 | Express..... | W. F. Express Co..... | 2 85 |
| Nov. 30, 1900 | 1241 | Salary..... | L. L. Foster..... | 41 66 |
| | 1242 | Salary..... | J. C. Edmonds..... | 36 66 |
| | 1243 | Salary..... | H. Ness..... | 55 55 |
| | 1244 | Salary..... | D. W. Spence..... | 44 44 |
| | 1245 | Salary..... | W. D. Foster..... | 15 00 |
| | 1246 | Salary..... | A. C. Love..... | 66 66 |
| | 1247 | Salary..... | F. K. McGinnis..... | 17 50 |
| | 1268 | Guards..... | Dow Wire Works..... | 68 30 |
| Dec. 10, 1900 | 1314 | Wood..... | J. H. Suber..... | 231 55 |
| | 1315 | Hardware..... | J. A. Myers..... | 13 48 |
| | 1316 | Oil..... | W. P. Oil Co..... | 50 05 |
| | 1317 | Laundry supplies..... | Alden Spears Sons..... | 6 70 |
| | 1318 | Wire guards..... | Dow Wire Works..... | 25 00 |
| | 1319 | Hardware..... | J. A. Myers..... | 2 73 |
| | 1320 | Office supplies..... | Von Boeckman Pub. Co..... | 14 78 |
| | 1321 | Stationery..... | Von Boeckman Pub. Co..... | 4 75 |
| | 1322 | Lumber..... | Garth, Howell & Webb..... | 291 05 |
| | 1323 | Hardware..... | F. W. Heitmann & Co..... | 17 42 |
| | 1324 | Electrical supplies..... | Eddy Electrical Co..... | 45 00 |
| | 1333 | Tel. rent..... | Bryan Tel. Exchange..... | 2 50 |
| | 1334 | Hardware..... | J. A. Myers..... | 14 40 |
| | 1335 | Repairs..... | J. A. Hanway..... | 1 35 |
| | 1336 | Repairs..... | J. A. Myers..... | 6 50 |
| | 1408 | Labor..... | John Young..... | 29 40 |
| | 1409 | Labor..... | Winther et al..... | 101 00 |
| | 1410 | Freight..... | H. & T. C. Ry. Co..... | 3 75 |
| | 1411 | Freight..... | H. & T. C. Ry. Co..... | 2 47 |
| | 1412 | Labor..... | Grupe et al..... | 300 00 |
| | 1413 | Express..... | W. F. Express Co..... | 25 |
| | 1414 | Labor..... | W. D. Foster..... | 1 70 |
| | 1415 | Express..... | W. D. Foster..... | 5 00 |
| | 1416 | Labor..... | J. Worthing..... | 45 |
| | 1417 | Revenue stamps..... | College expense account..... | 1 00 |
| | 1418 | Telegrams..... | W. U. Telegraph Co..... | 52 |
| | 1419 | Freight..... | H. & T. C. Ry. Co..... | 37 |
| | 1420 | Telegrams..... | W. U. Telegraph Co..... | 1 10 |
| Dec. 26, 1900 | 1480 | Repairs..... | Straight L. Eng. Co..... | 4 00 |
| | 1481 | Repairs..... | F. W. Heitmann..... | 5 71 |
| | 1482 | Repairs..... | Crosby Steam Guage Co..... | 1 69 |
| | 1483 | Repairs..... | Wm. Powell Co..... | 1 50 |
| | 1484 | Repairs..... | Crosby Steam Guage Co..... | 20 00 |
| | 1485 | Tools..... | Armstrong Bros..... | 2 80 |
| | 1486 | Machinery supplies..... | J. A. Myers..... | 28 70 |
| | 1487 | Express..... | W. F. Express Co..... | 3 50 |
| | 1488 | Freight..... | H. & T. C. Ry. Co..... | 45 |
| | 1489 | Subscription..... | L. M. Underwood..... | 3 25 |
| | 1490 | Express..... | W. F. Express Co..... | 1 40 |
| | 1491 | Express..... | W. F. Express Co..... | 1 10 |
| | 1492 | Stamps..... | J. V. Love..... | 35 |
| | 1493 | P. P. Express..... | F. W. Heitmann..... | 20 |
| | 1494 | Horseshoeing..... | Grice & Edge..... | 1 10 |
| | 1495 | Labor..... | C. S. Clark..... | 1 10 |
| | 1496 | Express..... | W. F. Express Co..... | 95 |
| | 1497 | Machinery supplies..... | F. W. Heitmann..... | 91 68 |
| | 1498 | Supplies..... | Waco Electrical Co..... | 8 25 |
| Dec. 31, 1900 | 1529 | Salary..... | L. L. Foster..... | 41 66 |
| | 1530 | Salary..... | J. C. Edmonds..... | 36 66 |
| | 1531 | Salary..... | H. Ness..... | 55 55 |
| | 1532 | Salary..... | D. W. Spence..... | 44 44 |
| | 1533 | Salary..... | W. D. Foster..... | 15 00 |
| | 1534 | Salary..... | A. C. Love..... | 66 66 |
| | 1535 | Salary..... | F. K. McGinnis..... | 17 50 |
| Jan. 4, 1901 | 1557 | Postage..... | W. C. Boyett..... | 94 95 |
| Jan. 15, 1901 | 1613 | Repairs..... | Pratt, Whitney Co..... | 63 |
| | 1614 | Repairs..... | H. Dock..... | 15 95 |
| | 1615 | Repairs..... | Wilson Jenkins D. Co..... | 15 |
| | 1616 | Machinery supplies..... | F. W. Heitmann..... | 10 25 |
| | 1617 | Machinery supplies..... | J. A. Myers..... | 7 55 |
| | 1618 | Machinery supplies..... | Manning, Maxwell & M..... | 72 41 |
| | 1619 | Machinery supplies..... | Mistrot Bros..... | 1 00 |
| | 1620 | Lock..... | J. A. Myers..... | 1 25 |
| | 1621 | T. W. supplies..... | Merchant & Manning..... | 1 80 |
| | 1622 | Telephone..... | Bryan Tel. Exchange..... | 2 50 |
| | 1623 | Hardware..... | J. A. Myers..... | 4 45 |
| | 1625 | Wood..... | J. H. Suber..... | 148 85 |

Maintenance and Support Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|----------------|-------------|---------------------------|-----------------------------|----------|
| Jan. 15, 1901 | 1626 | Traveling expenses | Office expense account..... | \$ 12 80 |
| | 1627 | Express | W. F. Express Co..... | 7 75 |
| | 1628 | Express | W. F. Express Co..... | 5 80 |
| | 1629 | Express | W. D. Foster..... | 5 00 |
| | 1630 | Labor..... | Winther et al..... | 106 00 |
| | 1631 | Express | W. F. Express Co..... | 4 25 |
| | 1632 | Telegram..... | W. U. Telegraph Co..... | 28 |
| | 1633 | Express | W. F. Express Co..... | 4 95 |
| | 1634 | Express | W. F. Express Co..... | 35 |
| | 1635 | Freight | H. & T. C. Ry. Co..... | 1 76 |
| | 1636 | Labor..... | George Grupe et al..... | 300 00 |
| Jan. 26, 1901. | 1691 | Oil..... | W. P. Oil Co..... | 7 58 |
| | 1692 | Office supplies | Mistrot Bros..... | 6 79 |
| | 1693 | Stationery | Bryan Eagle..... | 7 00 |
| | 1694 | Association fee..... | Edw. B. Voorhees..... | 10 00 |
| | 1695 | Belts..... | M. C. Lilly & Co..... | 11 20 |
| | 1696 | Chair seats | James & Castles..... | 1 20 |
| | 1697 | Putty | J. A. Myers..... | 1 25 |
| | 1698 | Music | Goggan & Bros..... | 1 85 |
| | 1699 | Mineral wool..... | Federal Lead Co..... | 25 10 |
| | 1700 | Feed | Farm department..... | 50 00 |
| | 1701 | Rubber stamps | J. V. Love..... | 25 |
| | 1702 | Feed | Farm department..... | 40 30 |
| | 1703 | Coal | Cole Bros..... | 7 98 |
| | 1704 | Harrow | Parlin & Orendorff..... | 25 00 |
| | 1705 | Trees | Jackson Co. Nursery..... | 4 75 |
| | 1706 | Repairs | F. W. Heitmann & Co..... | 20 37 |
| | 1707 | Electrical supplies | J. P. Hunter..... | 22 30 |
| | 1708 | Pump extras | American Pump Co..... | 6 60 |
| | 1709 | Lumber | Garth, Howell & Webb..... | 4 58 |
| | 1710 | Ammonia | National Ammonia Co..... | 27 30 |
| Jan. 30, 1901 | 1792 | Salary | L. L. Foster..... | 41 66 |
| | 1793 | Salary | J. C. Edmonds..... | 36 66 |
| | 1794 | Salary | H. Ness..... | 55 55 |
| | 1795 | Salary | D. W. Spence..... | 44 44 |
| | 1796 | Salary | W. D. Foster..... | 15 00 |
| | 1797 | Salary | A. C. Love..... | 66 66 |
| Feb. 5, 1901 | 1805 | Wood | J. H. Suber..... | 120 85 |
| | 1859 | Labor..... | W. J. Andrews..... | 10 40 |
| | 1860 | Wood | J. H. Suber..... | 8 00 |
| | 1861 | Freight..... | H. & T. C. Ry. Co..... | 1 97 |
| | 1862 | Freight..... | H. & T. C. Ry. Co..... | 4 70 |
| | 1863 | Supplies..... | F. W. Heitmann & Co..... | 41 00 |
| | 1864 | Rubber stamps | J. V. Love..... | 1 45 |
| | 1865 | Freight..... | H. & T. C. Ry. Co..... | 3 90 |
| | 1866 | Expense..... | W. L. Atkins..... | 1 25 |
| | 1867 | Labor..... | Grupe et al..... | 395 00 |
| | 1868 | Labor..... | R. Kinghorn..... | 1 25 |
| | 1869 | Leather..... | John Hanway..... | 7 25 |
| | 1870 | Electrical supplies..... | Waco Electrical Co..... | 75 |
| | 1871 | Salt..... | Howell Bros..... | 7 00 |
| | 1872 | Belts..... | Page Belting Co..... | 77 55 |
| | 1873 | Express | W. F. Express Co..... | 30 |
| | 1874 | Freight..... | H. & T. C. Ry. Co..... | 1 60 |
| | 1875 | Lanterns | J. A. Myers..... | 1 00 |
| | 1876 | Labor..... | Winther et al..... | 106 00 |
| | 1877 | Rope..... | W. C. Boyett..... | 55 |
| Feb. 18, 1901 | 1884 | Salary | E. A. White..... | 25 00 |
| | 1946 | Traveling expenses | L. L. Foster..... | 10 15 |
| | 1947 | Traveling expenses | L. L. Foster..... | 7 50 |
| | 1948 | Telegrams..... | W. U. Telegraph Co..... | 1 20 |
| | 1949 | Express | W. F. Express Co..... | 50 |
| | 1950 | Freight | H. & T. C. Ry. Co..... | 1 60 |
| | 1951 | Toilet paper..... | Cahill, Swift Co..... | 35 85 |
| | 1952 | P. O. guide..... | George F. Lasher..... | 2 00 |
| | 1953 | Express | W. F. Express Co..... | 7 35 |
| | 1954 | Freight..... | H. & T. C. Ry. Co..... | 68 |
| | 1955 | Tank | W. M. C. Hill..... | 7 00 |
| | 1956 | Freight..... | H. & T. C. Ry. Co..... | 65 |
| | 1957 | Supplies..... | M. H. James..... | 3 75 |
| | 1958 | Toweling..... | Webb Bros..... | 4 45 |
| | 1959 | Hardware..... | J. A. Myers..... | 28 35 |
| | 1960 | Repairs | Hartwell Iron Works..... | 1 51 |
| | 1961 | Equipment | Blymer Iron Works..... | 36 50 |
| | 1962 | Pruning knives | Mayer & Grosh..... | 4 80 |
| Feb. 28, 1901 | 2091 | Salary | L. L. Foster..... | 41 66 |
| | 2092 | Salary | J. C. Edmonds..... | 36 66 |
| | 2093 | Salary | H. Ness..... | 55 55 |

Maintenance and Support Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|---------------------------|------------------------------|----------|
| Feb. 28, 1901 | 2094 | Salary | D. W. Spence | \$ 44 44 |
| | 2095 | Salary | W. D. Foster | 15 00 |
| | 2096 | Salary | A. C. Love | 66 66 |
| | 2097 | Salary | E. A. White | 25 00 |
| | 2107 | Machinery supplies | Von Boeckman, S. & Co. | 2 00 |
| | 2108 | Laundry supplies | Troy Laundry Machy. Co. | 7 00 |
| | 2109 | Commutator | K. McLennan & Co. | 1 00 |
| | 2110 | Nails | Cole Bros. | 30 |
| | 2111 | Machinery | American Well Works. | 47 60 |
| | 2112 | Machinery | Manning, Maxwell & M. | 210 53 |
| | 2113 | Machinery | Nordburg Mfg. Co. | 8 20 |
| | 2114 | Crash | Mistrot Bros. | 2 43 |
| | 2115 | Machinery | Alden Spears Sons | 23 47 |
| | 2116 | Machinery | Geo. T. Blake & Co. | 20 02 |
| | 2117 | Ammonia | National Ammonia Co. | 27 90 |
| | 2118 | Oil | W. P. Oil Co. | 63 70 |
| | 2119 | Labor | Grupe et al. | 308 00 |
| | 2120 | Express | W. F. Express Co. | 40 |
| | 2121 | Hardware | F. W. Heitmann & Co. | 46 61 |
| | 2122 | Carbon cloth | Carborendum Co. | 94 |
| | 2123 | Hardware | J. A. Myers | 22 45 |
| | 2124 | Valve | Crosby Steam Guage Co. | 4 44 |
| | 2125 | Books | Spon & Chamberlain | 15 29 |
| | 2126 | Office supplies | T. Haswell | 16 90 |
| | 2127 | Books | John Wiley & Sons | 15 41 |
| | 2128 | Hardware | Bates & Guild | 2 00 |
| | 2129 | Types | Heliotype Printing Co. | 7 50 |
| | 2130 | Express | W. F. Express Co. | 40 |
| | 2131 | Labor | Winther et al. | 106 00 |
| | 2132 | Freight | H. & T. C. Ry. Co. | 80 |
| | 2133 | Hardware | J. A. Myers | 8 50 |
| | 2134 | Pad | Clarke & Courts | 50 |
| | 2135 | Seed | Thompson & Co. | 1 50 |
| | 2136 | Drawing material | S. T. Beer & Co. | 7 39 |
| | 2137 | Toilet paper | Cahill, Swift Co. | 3 30 |
| | 2138 | Buckets and pans | J. A. Myers | 14 45 |
| | 2139 | Stove pipe | J. A. Myers | 8 76 |
| | 2140 | Band extras | C. G. Conn | 1 75 |
| | 2141 | Oil | W. P. Oil Co. | 7 95 |
| | 2142 | Ink, etc. | Clarke & Courts | 2 10 |
| | 2143 | Labor | W. J. Andrews | 1 50 |
| | 2144 | Funeral escort | Kerr et al. | 12 10 |
| | 2145 | Express | W. D. Foster | 5 00 |
| | 2146 | Express | W. F. Express Co. | 1 30 |
| | 2147 | Freight | H. & T. C. Ry. Co. | 4 50 |
| | 2216 | Telegrams | W. U. Telegraph Co. | 1 37 |
| | 2217 | Express | W. F. Express Co. | 3 20 |
| | 2218 | Nails | W. C. Boyett | 14 |
| | 2219 | Postage | W. C. Boyett | 68 |
| | 2220 | Express | W. F. Express Co. | 30 |
| | 2221 | Wood | J. H. Suber | 105 80 |
| | 2271 | Insurance | H. C. Robinson | 10 00 |
| | 2272 | Office supplies | M. H. James | 1 20 |
| | 2273 | Globes | Buckeye Electric Co. | 45 00 |
| | 2274 | Expenses | F. K. McGinnis | 9 65 |
| | 2311 | Horse and buggy | J. F. Parks | 3 00 |
| | 2312 | Express | W. F. Express Co. | 75 |
| | 2313 | Freight | H. & T. C. Ry. Co. | 1 00 |
| | 2314 | Freight | H. & T. C. Ry. Co. | 3 90 |
| | 2315 | Freight | H. & T. C. Ry. Co. | 2 04 |
| | 2316 | Freight | H. & T. C. Ry. Co. | 98 |
| | 2317 | Freight | H. & T. C. Ry. Co. | 1 39 |
| | 2318 | Express | W. F. Express Co. | 3 90 |
| | 2319 | Electrical supplies | Westinghouse Mfg. Co. | 65 76 |
| | 2320 | Wood | Geo. Echols | 50 73 |
| | 2325 | Hardware | W. C. Boyett | 1 55 |
| | 2326 | Postage | W. C. Boyett | 84 20 |
| | 2337 | Cabinet | Globe Wernicke Co. | 50 50 |
| Mar. 30, 1901 | 2411 | Salary | L. L. Foster | 41 66 |
| | 2412 | Salary | J. C. Edmonds | 36 66 |
| | 2413 | Salary | H. Ness | 55 55 |
| | 2414 | Salary | D. W. Spence | 44 44 |
| | 2415 | Salary | W. D. Foster | 15 00 |
| | 2416 | Salary | A. C. Love | 66 66 |
| | 2417 | Salary | E. A. White | 25 00 |
| | 2428 | Excuse blanks | Brazos Pilot | 3 00 |
| | 2429 | Tel. rent | Bryan Telephone Exchange .. | 5 00 |
| | 2430 | Gutters | Cole Bros. | 20 00 |

Maintenance and Support Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|---------------------------|-------------------------------|----------|
| Mar. 30, 1901 | 2431 | Advertising | College Record..... | \$ 16 00 |
| | 2432 | Telegrams | W. U. Telegraph Co..... | 2 09 |
| | 2433 | Express | W. D. Foster..... | 5 00 |
| | 2434 | Express | W. F. Express Co..... | 80 |
| | 2435 | Express | W. F. Express Co..... | 1 35 |
| | 2436 | Postage | W. C. Boyett..... | 22 86 |
| Apr. 9, 1901 | 2488 | Wood | J. H. Suber..... | 278 43 |
| | 2559 | Machinery supplies | J. A. Myers..... | 21 91 |
| | 2560 | Machinery supplies | Manning, Maxwell & M..... | 1 35 |
| | 2561 | Machinery supplies | F. W. Heitmann & Co..... | 22 96 |
| | 2562 | Machinery supplies | Armstrong Tool Co..... | 1 58 |
| | 2563 | Freight..... | H. & T. C. Ry. Co..... | 80 |
| | 2564 | Express | W. F. Express Co..... | 25 |
| | 2565 | Express | W. F. Express Co..... | 1 35 |
| | 2566 | Supplies | F. Weber & Co..... | 17 73 |
| | 2567 | Shoeing mules..... | W. B. Grice..... | 1 00 |
| | 2568 | Repairs..... | J. A. Myers..... | 1 55 |
| | 2569 | T. W. Ribbons..... | Merchant & Manning..... | 3 65 |
| | 2570 | Blank reports | Bryan Eagle..... | 3 50 |
| | 2571 | Copy book..... | T. Haswell..... | 1 50 |
| | 2572 | Horse and buggy hire..... | J. F. Parks..... | 1 50 |
| | 2573 | Machinery supplies..... | F. W. Heitmann & Co..... | 3 00 |
| | 2574 | Paint..... | Garth, Howell & Webb..... | 40 |
| | 2575 | Record book..... | Clarke & Courts..... | 3 50 |
| | 2576 | Draft book..... | Clarke & Courts..... | 16 55 |
| | 2577 | Note books..... | J. J. Pastoriza..... | 1 00 |
| | 2578 | P. O. box rent..... | T. Haswell..... | 1 50 |
| | 2579 | Express | W. F. Express Co..... | 1 75 |
| | 2580 | Express | W. D. Foster..... | 5 00 |
| | 2581 | Labor | Grupe et al..... | 305 00 |
| | 2582 | Telegram | W. U. Telegraph Co..... | 40 |
| | 2583 | Freight..... | H. & T. C. Ry. Co..... | 3 84 |
| | 2584 | Express | W. F. Express Co..... | 60 |
| | 2586 | Labor | Winther et al..... | 106 00 |
| | 2586 | Express | W. F. Express Co..... | 25 |
| | 2594 | Shades | Levy Bros..... | 9 75 |
| | 2595 | Dairy supplies | F. B. Fargo & Co..... | 17 50 |
| | 2596 | Repairs | Weber Eng. Co..... | 60 |
| | 2597 | Express | W. F. Express Co..... | 2 20 |
| Apr. 30, 1901 | 2645 | Salary | L. L. Foster..... | 41 66 |
| | 2646 | Salary | J. C. Edmonds..... | 36 66 |
| | 2647 | Salary | H. Ness..... | 55 55 |
| | 2648 | Salary | D. W. Spence..... | 44 44 |
| | 2649 | Salary | W. D. Foster..... | 15 00 |
| | 2650 | Salary | A. C. Love..... | 66 66 |
| | 2651 | Salary | E. A. White..... | 25 00 |
| | 2670 | Wood | J. H. Suber..... | 319 27 |
| | 2671 | Wood | J. H. Suber..... | 262 90 |
| May 10, 1901 | 2739 | Books..... | Baker, Taylor Co..... | 2 85 |
| | 2740 | Repairs | Chas. Strelinger Co..... | 2 19 |
| | 2741 | Supplies | G. B. Lumber Co..... | 24 30 |
| | 2742 | Supplies..... | Eddy Electric Co..... | 50 |
| | 2743 | Supplies..... | F. W. Heitmann & Co..... | 5 75 |
| | 2744 | Subscriptions..... | American Machinist..... | 3 00 |
| | 2745 | Hardware | J. A. Myers..... | 24 35 |
| | 2746 | Freight..... | H. & T. C. Ry. Co..... | 37 |
| | 2747 | Oil | W. P. Oil Co..... | 2 50 |
| | 2748 | Repairs..... | American Well Works..... | 3 00 |
| | 2749 | Repairs..... | Mistrot Bros..... | 1 37 |
| | 2750 | Supplies | Manning, M. & Moore..... | 74 49 |
| | 2751 | Supplies | F. W. Heitmann & Co..... | 65 |
| | 2752 | Oil | W. P. Oil Co..... | 14 84 |
| | 2753 | Books | Maynard-Merrill Co..... | 95 |
| | 2754 | Books | Houghton-Mifflin Co..... | 7 00 |
| | 2755 | Supplies | W. J. Drug Co..... | 1 74 |
| | 2756 | Repairs..... | J. A. Myers..... | 4 10 |
| | 2757 | Repairs..... | C. W. Sever & Co..... | 40 |
| | 2758 | Books | MacMillan Co..... | 1 10 |
| | 2759 | T. W. ribbon..... | Ben S. Read..... | 1 00 |
| | 2760 | Lantern..... | J. A. Myers..... | 90 |
| | 2761 | Printing..... | Bryan Eagle..... | 9 25 |
| | 2762 | Subscriptions..... | Bausch & Lomb Optical Co..... | 2 00 |
| | 2763 | Receipt book..... | Clarke & Courts..... | 5 00 |
| | 2764 | Harness | Buchanan & Co..... | 10 25 |
| | 2765 | Oil and paint..... | Garth, Howell & Webb..... | 2 55 |
| | 2766 | Association dues..... | E. B. Voorhees..... | 10 00 |
| | 2767 | Alcohol | Dunn & Daly..... | 2 00 |
| | 2768 | Pipe..... | J. A. Myers..... | 6 25 |

Maintenance and Support Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|--------------|-------------|-------------------------|-------------------------------|----------|
| May 10, 1901 | 2769 | Hardware..... | Cole Bros..... | \$ 11 71 |
| | 2770 | Medicine..... | W. J. Drug Co..... | 10 10 |
| | 2771 | Half tones..... | Heyer Photo Co..... | 1 30 |
| | 2772 | Books..... | W. R. Jenkins..... | 9 90 |
| | 2773 | Lumber..... | Garth, Howell & Webb..... | 11 97 |
| | 2774 | Shed..... | Garth, Howell & Webb..... | 53 16 |
| | 2775 | Drugs..... | W. J. Drug Co..... | 59 45 |
| | 2776 | Hardware..... | J. A. Myers..... | 48 49 |
| | 2777 | Seed..... | Thompson Seed Co..... | 17 75 |
| | 2778 | Half tones..... | Heyer Photo Co..... | 3 05 |
| | 2779 | Office supplies..... | T. Haswell..... | 3 15 |
| | 2780 | Lumber..... | J. H. Suber..... | 5 00 |
| | 2781 | Books..... | Orange Judd Co..... | 1 13 |
| | 2782 | Labor..... | Geo. Jenkins..... | 10 15 |
| | 2783 | Frames..... | Levy Bros..... | 8 10 |
| | 2784 | Pipe..... | J. A. Myers..... | 14 55 |
| | 2854 | Labor..... | Grupe et al..... | 305 00 |
| | 2855 | Telegrams..... | W. U. Telegraph Co..... | 1 12 |
| | 2856 | Telegrams..... | W. U. Telegraph Co..... | 6 90 |
| | 2857 | Express..... | W. D. Foster..... | 5 00 |
| | 2858 | Freight..... | H. & T. C. Ry. Co..... | 82 |
| | 2859 | Labor..... | W. J. Andrews..... | 17 00 |
| | 2860 | Posts..... | J. H. Suber..... | 12 00 |
| | 2861 | Labor..... | B. Jackson et al..... | 2 75 |
| | 2862 | Labor..... | C. Winther et al..... | 107 00 |
| | 2863 | Labor..... | G. W. Gilbert..... | 1 00 |
| | 2864 | Labor..... | W. S. Johnson..... | 15 00 |
| | 2865 | Labor..... | W. S. Johnson..... | 3 50 |
| | 2866 | Freight..... | H. & T. C. Ry. Co..... | 1 30 |
| | 2867 | Freight..... | H. & T. C. Ry. Co..... | 41 |
| | 2868 | Express..... | W. F. Express Co..... | 2 50 |
| May 30, 1901 | 2927 | Cisterns..... | Garth, Howell & Webb..... | 12 78 |
| | 2928 | Cisterns..... | Harry Bros..... | 127 80 |
| | 2929 | Freight..... | H. & T. C. Ry. Co..... | 10 20 |
| | 2930 | Gate..... | J. H. Suber..... | 5 00 |
| | 2931 | Gate..... | F. W. Heitmann..... | 9 13 |
| | 2932 | Books..... | MacMillan & Co..... | 1 64 |
| | 2933 | Books..... | MacMillan & Co..... | 19 17 |
| | 2934 | Supplies..... | Burke & James..... | 1 08 |
| | 2935 | Supplies..... | Longman, Green & Co..... | 1 31 |
| | 2936 | Office supplies..... | T. Haswell..... | 60 |
| | 2937 | Posts..... | Dansby & Dansby..... | 3 55 |
| | 2938 | Labor..... | Mack Foster..... | 6 50 |
| | 2939 | Photo supplies..... | Heyer Photo Supply Co..... | 14 00 |
| | 2940 | Seed..... | Thompson Seed Co..... | 8 75 |
| | 2941 | Machinery supplies..... | E. R. Curtiss..... | 4 50 |
| | 2942 | Office supplies..... | T. Haswell..... | 1 44 |
| | 2943 | Machinery supplies..... | F. W. Heitmann..... | 6 80 |
| | 2944 | Machinery supplies..... | Manning, M. & Moore..... | 2 94 |
| | 2945 | Electric supplies..... | Waco Electric Co..... | 1 28 |
| | 2946 | Freight..... | H. & T. C. Ry. Co..... | 37 |
| | 2947 | Freight..... | H. & T. C. Ry. Co..... | 1 60 |
| | 2948 | Freight..... | H. & T. C. Ry. Co..... | 25 |
| | 2949 | Hardware..... | F. W. Heitmann..... | 6 54 |
| | 2950 | Valves..... | Cook Well Co..... | 45 45 |
| | 2951 | Traveling expenses..... | Geo. Grupe..... | 16 95 |
| | 2952 | Freight..... | H. & T. C. Ry. Co..... | 2 50 |
| | 2953 | Sewer supplies..... | Ahrens & Ott..... | 2 40 |
| | 2954 | Office supplies..... | T. Haswell..... | 3 60 |
| | 2955 | Express..... | W. F. Express Co..... | 1 20 |
| | 2956 | Freight..... | H. & T. C. Ry. Co..... | 1 82 |
| | 2957 | Freight..... | H. & T. C. Ry. Co..... | 77 |
| | 2958 | Freight..... | H. & T. C. Ry. Co..... | 1 35 |
| | 2959 | Filing cases..... | Clarke & Courts..... | 4 25 |
| | 2960 | Brushes..... | J. A. Myers..... | 2 75 |
| | 2961 | Drawing material..... | S. E. Hendricks..... | 5 00 |
| | 2962 | Labor..... | W. J. Andrews..... | 25 00 |
| | 2963 | Labor..... | W. J. Andrews..... | 15 00 |
| | 2964 | Wood..... | J. H. Suber..... | 13 50 |
| | 2965 | Seed..... | J. M. Alexander..... | 9 50 |
| | 2966 | Express..... | W. F. Express Co..... | 25 |
| | 2967 | Office supplies..... | T. Haswell..... | 1 40 |
| | 2968 | Lumber..... | Garth, Howell & Webb..... | 14 01 |
| | 2969 | Lumber..... | Garth, Howell & Webb..... | 20 95 |
| | 2970 | Lancets..... | Bausch & Lomb Optical Co..... | 3 10 |
| | 2971 | Subscriptions..... | Bausch & Lomb Optical Co..... | 1 00 |
| | 2972 | Thermometers..... | Watertown Ther. Co..... | 19 50 |
| | 2973 | Express..... | W. F. Express Co..... | 1 65 |

Maintenance and Support Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-----------------------------|---------------------------|---------|
| May 30, 1901 | 2974 | Labor..... | N. Bejajo..... | \$ 3 00 |
| | 3015 | Salary..... | L. L. Foster..... | 41 66 |
| | 3016 | Salary..... | J. C. Edmonds..... | 36 66 |
| | 3017 | Salary..... | H. Ness..... | 55 55 |
| | 3018 | Salary..... | D. W. Spence..... | 44 44 |
| | 3019 | Salary..... | A. C. Love..... | 66 66 |
| | 3020 | Salary..... | E. A. White..... | 25 00 |
| June 7, 1901 | 3033 | Wood..... | J. H. Suber..... | 306 45 |
| | 3034 | Wood..... | J. H. Suber..... | 221 40 |
| | 3057 | Salary..... | J. C. Edmonds..... | 12 25 |
| | 3058 | Salary..... | H. Ness..... | 18 51 |
| | 3059 | Salary..... | D. W. Spence..... | 14 82 |
| | 3060 | Salary..... | A. C. Love..... | 22 22 |
| | 3066 | Postage..... | W. C. Boyett..... | 10 60 |
| | 3067 | Postage..... | W. C. Boyett..... | 64 71 |
| | 3068 | Postage..... | W. C. Boyett..... | 10 20 |
| June 10, 1901 | 3128 | Labor..... | L. Sandles..... | 28 00 |
| | 3129 | Labor..... | Grupe et al..... | 261 10 |
| | 3130 | Labor..... | W. J. Andrews..... | 9 50 |
| | 3131 | Blocks..... | J. H. Suber..... | 4 00 |
| | 3132 | Telephone rent..... | Bryan Tel. Exchange..... | 7 50 |
| | 3133 | Labor..... | Youngblood et al..... | 2 00 |
| | 3134 | Labor..... | W. J. Andrews..... | 7 00 |
| | 3135 | Feed..... | Farm department..... | 60 00 |
| | 3136 | Labor..... | F. E. Stephenson..... | 10 00 |
| | 3137 | Labor..... | F. E. Stephenson..... | 18 65 |
| | 3138 | Labor..... | C. Winther et al..... | 106 00 |
| June 20, 1901 | 3139 | Express..... | W. F. Express Co..... | 2 95 |
| | 3202 | Express..... | W. F. Express Co..... | 25 |
| | 3203 | Drugs..... | W. J. Drug Co..... | 1 95 |
| | 3204 | Drawing supplies..... | T. Haswell..... | 65 |
| | 3205 | Drawing supplies..... | T. Haswell..... | 95 |
| | 3206 | Drawing supplies..... | F. Weber & Co..... | 1 88 |
| | 3207 | Office supplies..... | T. Haswell..... | 1 95 |
| | 3208 | Office supplies..... | T. Haswell..... | 3 20 |
| | 3209 | Express..... | W. F. Express Co..... | 85 |
| | 3210 | Spade..... | D. A. Hortman..... | 2 00 |
| | 3211 | Repairs..... | Hausmann & Dunn..... | 2 50 |
| | 3212 | Instruments..... | Hausmann & Dunn..... | 8 25 |
| | 3213 | Feed..... | E. C. Harder..... | 2 40 |
| | 3214 | Hardware..... | J. A. Myers..... | 13 45 |
| | 3215 | Drugs..... | W. J. Drug Co..... | 15 47 |
| | 3216 | Hardware..... | J. A. Myers..... | 2 20 |
| | 3217 | Express..... | W. F. Express Co..... | 2 25 |
| | 3218 | Books..... | The Trade Co..... | 5 00 |
| | 3219 | Books..... | Plant Pub. Co..... | 2 50 |
| | 3220 | Express..... | W. F. Express Co..... | 2 15 |
| | 3221 | Express..... | W. U. Telegraph Co..... | 10 65 |
| | 3222 | Toilet paper..... | Cahill, Swift Co..... | 29 50 |
| | 3223 | Brushes..... | J. A. Myers..... | 4 40 |
| | 3224 | Office supplies..... | T. Haswell..... | 1 10 |
| | 3225 | Pens..... | Clarke & Courts..... | 1 38 |
| | 3226 | Clock..... | John Caldwell..... | 5 00 |
| | 3227 | T. W. paper..... | Merchant & Manning..... | 3 25 |
| | 3228 | Hardware..... | J. A. Myers..... | 2 00 |
| | 3229 | Hardware..... | F. A. Heitmann..... | 1 31 |
| | 3230 | Molding..... | Garth, Howell & Webb..... | 1 50 |
| | 3231 | Springs..... | F. A. Heitmann..... | 40 |
| | 3232 | Oil..... | W. P. Oil Co..... | 15 90 |
| | 3233 | Score cards..... | Bryan Eagle..... | 5 00 |
| | 3234 | Corn..... | C. F. Moore..... | 17 31 |
| | 3235 | Corn..... | C. F. Moore..... | 5 16 |
| | 3236 | Dairy supplies..... | J. A. Myers..... | 5 25 |
| | 3237 | Dairy supplies..... | J. A. Myers..... | 9 60 |
| June 30, 1901 | 3248 | Salary..... | L. L. Foster..... | 41 66 |
| | 3291 | Labor..... | W. J. Andrews..... | 3 00 |
| | 3292 | Freight..... | H. & T. C. Ry. Co..... | 2 20 |
| | 3293 | Express..... | W. F. Express Co..... | 30 |
| | 3294 | Hardware..... | Cole Bros..... | 5 80 |
| | 3295 | Hardware..... | Peden & Co..... | 29 16 |
| | 3296 | Lumber..... | Garth, Howell & Webb..... | 2 24 |
| | 3297 | Labor..... | Joe Wasatka..... | 3 00 |
| | 3298 | Supplies..... | George H. Pittman..... | 7 09 |
| | 3299 | Supplies..... | Kalteyer & Son..... | 1 50 |
| | 3300 | Horticultural supplies..... | L. B. Prince..... | 4 50 |
| | 3301 | Repairs..... | A. K. Robins & Co..... | 3 47 |
| | 3302 | Repairs..... | Wagner & Brandon..... | 2 60 |
| | 3303 | Half tones..... | Stockman and Farmer..... | 5 50 |

Maintenance and Support Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-------------------------|----------------------------|---------|
| June 30, 1901 | 3304 | Express..... | W. F. Express Co..... | \$ 2 40 |
| | 3305 | Pens..... | Clarke & Courts..... | 66 |
| | 3306 | Pens..... | T. Haswell..... | 65 |
| | 3307 | Express..... | W. F. Express Co..... | 6 45 |
| | 3308 | Freight..... | H. & T. C. Ry. Co..... | 3 11 |
| | 3309 | Painting..... | A. E. Withers..... | 4 00 |
| | 3310 | Freight..... | H. & T. C. Ry. Co..... | 7 89 |
| | 3311 | Freight..... | H. & T. C. Ry. Co..... | 45 |
| | 3312 | Freight..... | H. & T. C. Ry. Co..... | 37 |
| | 3313 | Labor..... | Moore et al..... | 37 75 |
| | 3314 | Express..... | W. F. Express Co..... | 35 |
| | 3315 | Freight..... | H. & T. C. Ry. Co..... | 2 73 |
| | 3316 | Labor..... | M. Foster et al..... | 9 00 |
| | 3360 | Expense..... | Rev. C. McPherson..... | 25 00 |
| | 3361 | Expense..... | W. A. Shaw..... | 25 00 |
| | 3364 | Salary..... | E. A. White..... | 25 00 |
| | 3430 | Express..... | W. F. Express Co..... | 25 |
| | 3431 | Telegrams..... | W. U. Telegraph Co..... | 2 13 |
| | 3432 | Labor..... | Grupe et al..... | 150 00 |
| | 3433 | Soap..... | Howell Bros..... | 1 00 |
| July 15, 1901 | 3434 | Express..... | W. F. Express Co..... | 1 05 |
| | 3435 | Labor..... | Prince Adams..... | 1 75 |
| | 3436 | Labor..... | A. Rule..... | 20 00 |
| | 3437 | Labor..... | H. Evans..... | 1 75 |
| | 3438 | Hardware..... | Cole Bros..... | 4 24 |
| | 3439 | Hose..... | J. A. Myers..... | 6 25 |
| | 3440 | Drugs..... | W. J. Drug Co..... | 8 65 |
| | 3441 | Calf..... | S. E. Kenner..... | 25 00 |
| | 3442 | Express..... | W. F. Express Co..... | 2 10 |
| | 3443 | Buckets..... | J. A. Myers..... | 21 90 |
| | 3444 | Phone rent..... | Bryan Tel. Exchange..... | 3 50 |
| | 3445 | Telegrams..... | W. U. Telegraph Co..... | 7 19 |
| | 3446 | Ice..... | W. A. Cone..... | 80 |
| | 3447 | Express..... | W. F. Express Co..... | 1 75 |
| | 3448 | Labor..... | Winther et al..... | 62 00 |
| | 3449 | Telegrams..... | W. U. Telegraph Co..... | 86 |
| | 3450 | Hardware..... | J. A. Myers..... | 37 55 |
| | 3451 | Hardware..... | J. A. Myers..... | 17 25 |
| | 3452 | Labor..... | F. R. Graves..... | 2 70 |
| | 3453 | Coal..... | J. A. Myers..... | 2 50 |
| | 3454 | Ice..... | W. A. Cone..... | 13 82 |
| | 3455 | Hardware..... | J. A. Myers..... | 2 19 |
| | 3456 | Hardware..... | J. A. Myers..... | 5 10 |
| | 3457 | Canvas..... | Burt Norwood..... | 2 00 |
| | 3458 | Dairy Supplies..... | H. M. K. Wilson..... | 47 95 |
| | 3459 | Films..... | Rochester Opt. Co..... | 10 80 |
| | 3460 | Repairs..... | Weber Gas Eng. Co..... | 1 70 |
| | 3461 | Repairs..... | W. B. Grice..... | 1 50 |
| | 3462 | Freight..... | H. & T. C. Ry. Co..... | 1 39 |
| | 3463 | Express..... | W. E. Express Co..... | 45 |
| | 3595 | Equipment..... | W. & L. E. Gurley..... | 8 00 |
| | 3596 | Ice..... | W. A. Cone..... | 12 92 |
| | 3597 | Labor..... | B. Youngblood..... | 20 00 |
| | 3598 | Towels..... | Webb Bros..... | 2 62 |
| | 3599 | Freight..... | H. & T. C. Ry. Co..... | 4 37 |
| | 3600 | Freight..... | H. & T. C. Ry. Co..... | 3 09 |
| | 3601 | Express..... | W. F. Express Co..... | 65 |
| | 3602 | Labor..... | J. Harrison..... | 8 15 |
| | 3603 | Hardware..... | J. A. Myers..... | 25 |
| | 3604 | Hardware..... | D. A. Hortman..... | 75 |
| | 3605 | Express..... | W. F. Express Co..... | 25 |
| | 3606 | Labor..... | Pape et al..... | 3 20 |
| | 3607 | Drawing material..... | Brown & Sharpe..... | 4 16 |
| | 3608 | Labor..... | A. M. Jones..... | 1 25 |
| | 3609 | Labor..... | W. J. Andrews..... | 3 50 |
| | 3610 | Freight..... | H. & T. C. Ry. Co..... | 6 00 |
| | 3611 | Wood..... | J. H. Suber..... | 314 55 |
| | 3617 | Salary..... | L. L. Foster..... | 41 66 |
| | 3618 | Salary..... | E. A. White..... | 25 00 |
| Aug. 16, 1901 | 3684 | Feed..... | Farm department..... | 60 00 |
| | 3685 | Office supplies..... | Clarke & Courts..... | 6 45 |
| | 3686 | Traveling expenses..... | R. H. Whitlock..... | 18 74 |
| | 3687 | Labor..... | George Grupe..... | 90 00 |
| | 3688 | Botanical supplies..... | Bausch & Lomb Opt. Co..... | 22 40 |
| | 3689 | Drawing material..... | Daniel & Upham..... | 67 |
| | 3690 | Building shed..... | Garth, Howell & Webb..... | 51 65 |
| | 3691 | Books..... | Orange Judd Co..... | 1 50 |
| | 3692 | Supplies..... | Bausch & Lomb Opt. Co..... | 8 14 |

Maintenance and Support Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-------------------------|------------------------------|----------|
| Aug. 16, 1901 | 3693 | Supplies..... | Wilson, Jenkins Drug Co..... | \$ 2 90 |
| Aug. 26, 1901 | 3706 | Salary..... | L. L. Foster..... | 41 60 |
| | 3707 | Salary..... | E. A. White..... | 25 00 |
| Aug. 30, 1901 | 3725 | Wood..... | J. H. Suber..... | 241 30 |
| | 3726 | Laundry supplies..... | Alden, Spears Sons..... | 91 20 |
| | 3727 | Poles..... | R. F. Smith..... | 14 00 |
| | 3728 | Machinery supplies..... | Cook Well Co..... | 6 50 |
| | 3729 | Herbarium case..... | Southern Furniture Co..... | 72 00 |
| | 3730 | Dairy supplies..... | H. McK. Wilson..... | 18 50 |
| | 3731 | Hardware..... | J. A. Myers..... | 20 74 |
| | 3732 | Hardware..... | J. A. Myers..... | 3 00 |
| | 3733 | Hardware..... | J. A. Myers..... | 2 00 |
| | 3734 | Hardware..... | J. A. Myers..... | 50 |
| | 3735 | Repairs..... | Stevenson Machinery Co..... | 3 75 |
| | 3736 | Oil..... | W. P. Oil Co..... | 7 83 |
| | 3737 | Postage..... | T. Haswell..... | 21 10 |
| | 3738 | Office supplies..... | T. Haswell..... | 1 15 |
| | 3739 | Postage..... | T. Haswell..... | 12 00 |
| | 3740 | Expense..... | B. S. Read..... | 85 |
| | 3741 | Chair seats..... | James & Castles..... | 60 |
| | 3742 | Phone rents..... | Bryan Tel. Exchange..... | 4 00 |
| | 3743 | Buckets, etc..... | J. A. Myers..... | 18 50 |
| | 3744 | Hardware..... | J. A. Myers..... | 1 00 |
| | 3817 | Freight..... | H. & T. C. Ry. Co..... | 21 40 |
| | 3818 | Freight..... | H. & T. C. Ry. Co..... | 1 53 |
| | 3819 | Labor..... | A. M. Jones et al..... | 12 50 |
| | 3820 | Labor..... | M. Foster et al..... | 18 70 |
| | 3821 | Labor..... | B. Youngblood..... | 15 00 |
| | 3822 | Labor..... | B. Youngblood..... | 20 00 |
| | 3823 | Labor..... | L. Deason..... | 2 70 |
| | 3824 | Ice..... | W. A. Cone..... | 10 67 |
| | 3825 | Ice..... | W. A. Cone..... | 11 50 |
| | 3826 | Telegrams..... | W. U. Telegraph Co..... | 5 05 |
| | 3827 | Office supplies..... | T. Haswell..... | 1 75 |
| | 3828 | Express..... | W. F. Express Co..... | 2 30 |
| | 3829 | Express..... | W. F. Express Co..... | 1 05 |
| | 3830 | Ice..... | W. A. Cone..... | 1 55 |
| | 3831 | Telegrams..... | W. U. Telegraph Co..... | 75 |
| | 3832 | Freight..... | H. & T. C. Ry. Co..... | 14 44 |
| | 3833 | Pump extras..... | H. & T. C. Ry. Co..... | 1 30 |
| | 3834 | Labor..... | C. Winther et al..... | 108 00 |
| | 3835 | Freight..... | H. & T. C. Ry. Co..... | 2 62 |
| | 3836 | Express..... | W. F. Express Co..... | 39 |
| | 3837 | Express..... | W. F. Express Co..... | 3 25 |
| | 3838 | Freight..... | H. & T. C. Ry. Co..... | 8 58 |
| | 3854 | Building..... | Lewis & Weddington..... | 180 00 |
| | 3855 | Labor..... | J. Davis et al..... | 10 25 |
| | 3856 | Labor..... | Grupe et al..... | 150 00 |
| | 3857 | Labor..... | Butler et al..... | 37 95 |
| | 3858 | Ice..... | W. A. Cone..... | 13 09 |
| | 3859 | Labor..... | Winther et al..... | 108 00 |
| | 3860 | Ice..... | W. A. Cone..... | 1 60 |
| | 3861 | Telegrams..... | W. U. Telegraph Co..... | 2 45 |
| | 3862 | Express..... | W. F. Express Co..... | 75 |
| | 3863 | Express..... | W. F. Express Co..... | 1 85 |
| | 3864 | Express..... | W. F. Express Co..... | 75 |
| | 3884 | Building..... | Lewis & Weddington..... | 1,040 00 |
| | 3887 | Telegrams..... | W. U. Telegraph Co..... | 75 |
| | 3888 | Supplies..... | E. R. Emmel..... | 85 |
| | 3889 | Labor..... | H. T. Lewis..... | 75 |
| | 3890 | Books..... | Oxford University Press..... | 5 68 |
| | 3913 | Labor..... | A. E. Withers..... | 11 61 |
| | 3914 | Hauling..... | D. M. Mize..... | 1 25 |
| | 3915 | Repairs..... | F. S. Wilcox..... | 26 50 |
| | 3916 | Lumber..... | Garth, Howell & Webb..... | 43 00 |
| | 3946 | Oil..... | W. P. Oil Co..... | 63 28 |
| | 3947 | Machinery supplies..... | Manning, M., and Moore..... | 14 76 |
| | 3948 | Tallow..... | W. C. Boyett..... | 20 00 |
| | 3949 | Laundry supplies..... | Troy Laundry Machy. Co..... | 2 60 |
| | 3950 | Globes..... | Buckeye Elect. Co..... | 47 04 |
| | 3951 | Drawing material..... | S. T. Beer & Co..... | 36 08 |
| | 3952 | Drawing material..... | E. R. Emmel..... | 65 |
| | 3953 | Hardware..... | J. A. Myers..... | 13 27 |
| | 3988 | Salary..... | L. L. Foster..... | 41 66 |
| | 3989 | Salary..... | H. Ness..... | 37 04 |
| | 3990 | Salary..... | D. W. Spence..... | 29 63 |
| | 3991 | Salary..... | A. C. Love..... | 44 44 |
| | 3992 | Salary..... | C. P. Fountain..... | 50 00 |

Maintenance and Support Account continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|------------------------|-------------------------------|----------|
| Aug. 30, 1901 | 3993 | Salary | W. J. Sowder..... | \$ 66 66 |
| | 4007 | Salary | E. A. White..... | 25 00 |
| Oct. 30, 1901 | 146 | Supplies | Creamery Pkg. Mfg. Co..... | 2 70 |
| | 147 | Oil | W. P. Oil Co..... | 6 25 |
| | 148 | Drugs | Wilson Jenkins Drug Co..... | 45 |
| | 149 | Labor | W. J. Andrews..... | 2 00 |
| | 150 | Labor | B. Youngblood..... | 35 00 |
| | 151 | Freight | H. & T. C. Ry. Co | 4 27 |
| | 152 | Freight | H. & T. C. Ry. Co | 3 45 |
| | 153 | Ice | W. A. Cone..... | 6 94 |
| | 154 | Books | Tyler Haswell..... | 8 40 |
| | 155 | Typewriter ribbon..... | J. J. Pastoriza..... | 1 00 |
| | 156 | Printing | Bryan Eagle..... | 11 75 |
| | 157 | Books | Clarke & Courts..... | 5 45 |
| | 158 | Books | Clarke & Courts..... | 18 05 |
| | 159 | Express | W. F. Express Co | 45 |
| | 160 | Ink pads..... | Clarke & Courts..... | 65 |
| | 161 | Oil | W. P. Oil Co..... | 8 58 |
| | 162 | Toilet paper..... | Cahill, Swift Mfg. Co..... | 120 80 |
| | 163 | Printing..... | J. J. Pastoriza Co..... | 3 35 |
| | 164 | Class books..... | J. J. Pastoriza Co..... | 15 85 |
| | 165 | Lime..... | Garth, Howell & Webb..... | 1 35 |
| | 166 | Lumber..... | Garth, Howell & Webb..... | 5 54 |
| | 167 | Material..... | Garth, Howell & Webb..... | 7 10 |
| | 168 | Material..... | Garth, Howell & Webb..... | 4 82 |
| | 169 | Material..... | Garth, Howell & Webb..... | 4 90 |
| | 170 | Material..... | Garth, Howell & Webb..... | 4 80 |
| | 171 | Telephone rent..... | Bryan Telephone Exchange..... | 8 00 |
| | 172 | Printing..... | Bryan Eagle..... | 45 75 |
| | 173 | Drugs | Wilson Jenkins Drug Co..... | 3 50 |
| | 174 | Horse shoeing..... | W. B. Grice..... | 2 00 |
| | 175 | Buckets, etc..... | J. A. Myers..... | 68 30 |
| | 176 | Brushes | J. A. Myers..... | 4 00 |
| | 177 | Express | W. F. Express Co | 25 |
| | 178 | Express | W. F. Express Co | 1 50 |
| | 179 | Telegrams..... | W. U. Telegraph Co..... | 8 96 |
| | 180 | Ice..... | W. A. Cone..... | 40 |
| | 181 | Freight | H. & T. C. Ry. Co | 17 13 |
| | 182 | Telegrams..... | C. P. Fountain..... | 1 20 |
| | 183 | Labor | Wm. Andrews..... | 3 40 |
| | 250 | Salary | Geo. Whitney..... | 66 66 |
| | 275 | Salary | L. L. Foster | 80 30 |
| | 276 | Salary | C. P. Fountain..... | 100 00 |
| | 277 | Salary | H. M. Rollins..... | 83 33 |
| | 278 | Salary | A. O. Love..... | 88 88 |
| | 279 | Salary | E. A. White..... | 25 00 |
| | 280 | Salary | W. J. Sowder | 100 00 |
| | 281 | Salary | Geo. S. Whitney..... | 100 00 |
| | 282 | Salary | H. Ness..... | 22 22 |
| | 283 | Salary | W. B. Philpott..... | 22 22 |
| | 385 | Express | W. F. Express Co..... | 25 |
| | 386 | Telegrams..... | W. U. Telegraph Co..... | 1 24 |
| | 387 | Office supplies..... | T. Haswell | 3 50 |
| | 388 | Hardware | J. A. Myers..... | 29 75 |
| | 389 | Stationery..... | Corner Book Store..... | 2 59 |
| | 390 | Hardware | F. W. Heitmann & Co..... | 33 53 |
| | 391 | Hardware..... | Putnam Machine Co..... | 2 10 |
| | 392 | Drawing material..... | F. Weber | 9 83 |
| | 393 | Tools..... | Armstrong Tool Co..... | 2 80 |
| | 394 | Belting..... | Page Belting Co | 1 25 |
| | 395 | Telegrams..... | W. U. Telegraph Co..... | 1 59 |
| | 396 | Freight | H. & T. C. Ry. Co | 1 89 |
| | 397 | Labor | L. Deason et al..... | 32 95 |
| | 398 | Labor | Geo. Grupe | 143 65 |
| | 399 | Labor | Geo. Grupe et al..... | 292 40 |
| | 400 | Labor | H. Williams..... | 52 00 |
| | 401 | Labor | Deason et al..... | 12 50 |
| | 402 | Labor | T. O. Bullard et al..... | 97 32 |
| | 403 | Express..... | W. F. Express Co..... | 60 |
| | 404 | Physics expense..... | W. W. Spence..... | 1 75 |
| | 405 | Stationery..... | Brazos Pilot..... | 2 50 |
| | 406 | Labor | Withers et al..... | 93 00 |
| | 407 | Express..... | W. F. Express Co | 45 |
| | 408 | Labor | Winther et al..... | 168 00 |
| | 409 | Books | McMillan Co..... | 5 00 |
| | 410 | Supplies | Williams, Brown & Co..... | 16 29 |
| | 411 | Labor | J. L. Deason..... | 12 50 |
| | 412 | Blank drafts..... | Clarke & Courts..... | 13 00 |

Nov. 11, 1901

Maintenance and Support Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|---------------------------|--------------------------------|----------|
| Nov. 11, 1901 | 413 | Drawing material..... | S. T. Beer & Co..... | \$ 72 85 |
| | 414 | Labor..... | Aug. Thompson..... | 18 85 |
| | 416 | Express..... | W. F. Express Co..... | 25 |
| | 417 | Building and repairs..... | M. L. Wallace..... | 200 85 |
| | 420 | Lanterns..... | Montgomery Ward & Co..... | 7 20 |
| | 459 | Building..... | Lewis & Weddington..... | 300 00 |
| | 460 | Labor..... | J. H. Suber..... | 12 00 |
| | 461 | Labor..... | R. E..... | 22 15 |
| | 462 | Labor..... | Sam Murry et al..... | 9 75 |
| | 463 | Freight..... | H. & T. C. Ry. Co..... | 1 23 |
| | 464 | Freight..... | H. & T. C. Ry. Co..... | 2 50 |
| | 465 | Freight..... | H. & T. C. Ry. Co..... | 2 45 |
| | 466 | Freight..... | H. & T. C. Ry. Co..... | 261 60 |
| | 467 | Express..... | W. F. Express Co..... | 3 75 |
| | 468 | Express..... | W. F. Express Co..... | 3 95 |
| | 469 | Telegrams..... | W. U. Telegraph Co..... | 1 25 |
| | 470 | Labor..... | A. E. Withers..... | 1 75 |
| | 471 | Postoffice box rent..... | T. Haswell..... | 75 |
| | 472 | Express..... | W. F. Express Co..... | 50 |
| | 473 | Express..... | W. F. Express Co..... | 3 35 |
| | 474 | Freight..... | H. & T. C. Ry. Co..... | 1 00 |
| | 475 | Telegrams..... | W. U. Telegraph Co..... | 3 21 |
| | 476 | Freight..... | H. & T. C. Ry. Co..... | 37 |
| | 477 | Freight..... | H. & T. C. Ry. Co..... | 80 |
| | 478 | Express..... | W. F. Express Co..... | 12 75 |
| | 479 | Express..... | W. F. Express Co..... | 3 10 |
| | 480 | Express..... | W. F. Express Co..... | 30 |
| | 481 | Freight..... | H. & T. C. Ry. Co..... | 2 68 |
| | 482 | Express..... | W. F. Express Co..... | 25 |
| | 483 | Express..... | W. F. Express Co..... | 1 80 |
| | 484 | Express..... | W. F. Express Co..... | 2 05 |
| | 485 | Express..... | W. F. Express Co..... | 3 25 |
| Nov. 15, 1901 | 486 | Scales..... | Fairbanks Co..... | 8 95 |
| | 487 | Freight..... | H. & T. C. Ry. Co..... | 1 13 |
| | 488 | Freight..... | H. & T. C. Ry. Co..... | 22 00 |
| | 489 | Freight..... | H. & T. C. Ry. Co..... | 60 |
| | 490 | Freight..... | H. & T. C. Ry. Co..... | 2 00 |
| | 567 | Cash book..... | Clarke & Courts..... | 14 05 |
| Nov. 30, 1901 | 568 | Oil..... | Garth, Howell & Webb..... | 2 10 |
| | 569 | Office supplies..... | W. C. Boyett..... | 2 05 |
| | 570 | Buckets, etc..... | J. A. Myers..... | 6 50 |
| | 571 | Equipment..... | J. A. Myers..... | 5 06 |
| | 572 | Equipment..... | J. A. Myers..... | 22 90 |
| | 573 | Erasers..... | T. Haswell..... | 75 |
| | 574 | Hardware..... | J. A. Myers..... | 1 70 |
| | 575 | Electrical supplies..... | Barden Electric Mfg. Co..... | 10 50 |
| | 576 | Physics supplies..... | C. Bensinger..... | 11 47 |
| | 577 | Supplies..... | Bausch & Lomb Co..... | 3 07 |
| | 578 | Supplies..... | Bausch & Lomb Co..... | 7 15 |
| | 579 | Flowers..... | H. A. Drew..... | 3 91 |
| | 580 | Lumber..... | Garth, Howell & Webb..... | 32 78 |
| | 581 | Reference books..... | W. R. Jenkins..... | 3 00 |
| | 582 | Wagon..... | Saunders & Johnson..... | 37 50 |
| | 583 | Hardware..... | J. A. Myers..... | 2 00 |
| | 584 | Veterinary supplies..... | J. T. Hanway..... | 2 00 |
| | 585 | Powder..... | J. A. Myers..... | 4 00 |
| | 586 | Lantern..... | Montgomery Ward & Co..... | 3 25 |
| | 587 | Office supplies..... | Clarke & Courts..... | 5 44 |
| | 588 | Hardware..... | J. A. Myers..... | 13 05 |
| | 589 | Hardware..... | F. W. Heitmann & Co..... | 45 28 |
| | 590 | Electrical supplies..... | Eddy Electrical Supply Co..... | 46 25 |
| | 591 | Repairs..... | Manning, Maxwell & Moore..... | 5 00 |
| | 592 | Coke..... | Houston Gas Light Co..... | 1 50 |
| | 593 | Paint..... | N. Randolph..... | 2 40 |
| | 594 | Paint..... | Garth, Howell & Webb..... | 12 50 |
| | 595 | Brick..... | Garth, Howell & Webb..... | 160 91 |
| | 596 | Boiler..... | F. W. Heitmann & Co..... | 246 64 |
| | 597 | Salt..... | Howell Bros..... | 7 90 |
| | 598 | Hardware..... | Cole Bros..... | 2 65 |
| | 599 | Leather..... | John T. Hanway..... | 7 50 |
| | 600 | Buckets..... | J. A. Myers..... | 1 90 |
| | 601 | Drawing supplies..... | Bensinger & Co..... | 10 95 |
| | 602 | Drawing supplies..... | F. Weber..... | 21 60 |
| | 603 | Lumber..... | Garth, Howell & Webb..... | 5 77 |
| | 604 | Lumber..... | Garth, Howell & Webb..... | 3 36 |
| | 605 | Stools..... | Levy Bros..... | 20 00 |
| | 606 | Hardware..... | J. A. Myers..... | 1 00 |
| | 607 | Material..... | Garth, Howell & Webb..... | 1 75 |

Maintenance and Support Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|--------------------------|------------------------------|----------|
| Nov. 30, 1901 | 660 | Salary..... | L. L. Foster..... | \$ 80 30 |
| | 661 | Salary..... | C. P. Fountain..... | 100 00 |
| | 662 | Salary..... | H. M. Rollins..... | 83 33 |
| | 663 | Salary..... | A. C. Love..... | 88 88 |
| | 664 | Salary..... | E. A. White..... | 25 00 |
| | 665 | Salary..... | W. J. Sowder..... | 100 00 |
| | 666 | Salary..... | George Whitney..... | 100 00 |
| | 667 | Salary..... | H. Ness..... | 22 22 |
| | 668 | Salary..... | W. B. Philpott..... | 22 22 |
| | 690 | Wood..... | J. H. Suber..... | 467 10 |
| Dec. 12, 1901 | 691 | Insurance..... | H. C. Robinson..... | 45 00 |
| | 692 | Sewer repairs..... | Cahill, Swift Mfg. Co..... | 9 10 |
| | 693 | Stoves, etc..... | J. A. Myers..... | 92 48 |
| | 694 | Office supplies..... | Bryan Eagle..... | 6 50 |
| | 695 | Sub-book..... | T. Haswell..... | 1 50 |
| | 696 | Erasers..... | T. Haswell..... | 75 |
| | 697 | Cisterns..... | Harry Bros..... | 188 00 |
| | 698 | Phone rent..... | Bryan Tel. Co..... | 8 00 |
| | 699 | Belt..... | F. W. Heitmann & Co..... | 8 63 |
| | 703 | Express..... | W. F. Express Co..... | 2 69 |
| Dec. 20, 1901 | 704 | Cistern..... | Allen Harris..... | 80 |
| | 705 | Cistern..... | M. Jackson..... | 11 00 |
| | 706 | Cistern..... | J. F. Adams..... | 11 00 |
| | 707 | Cisterns..... | A. Harrison..... | 1 00 |
| | 708 | Cisterns..... | L. Finley et al..... | 2 90 |
| | 709 | Express..... | W. F. Express Co..... | 2 05 |
| | 710 | Labor..... | A. Thompson..... | 45 00 |
| | 711 | Express..... | W. F. Express Co..... | 1 25 |
| | 712 | Labor..... | S. Bludworth..... | 32 00 |
| | 713 | Freight..... | H. & T. C. Ry. Co..... | 54 |
| | 714 | Freight..... | H. & T. C. Ry. Co..... | 25 50 |
| | 715 | Freight..... | H. & T. C. Ry. Co..... | 1 21 |
| | 716 | Express..... | W. F. Express Co..... | 25 |
| | 717 | Freight..... | H. & T. C. Ry. Co..... | 16 22 |
| | 718 | Index cards..... | Macey Co..... | 2 06 |
| | 719 | Typewriter..... | Montgomery, Ward & Co..... | 65 00 |
| | 720 | Clips..... | T. Haswell..... | 40 |
| | 721 | Express..... | W. F. Express Co..... | 2 20 |
| | 722 | Freight..... | H. & T. C. Ry. Co..... | 1 50 |
| | 723 | Express..... | W. F. Express Co..... | 1 00 |
| | 724 | Freight..... | H. & T. C. Ry. Co..... | 2 25 |
| | 725 | Express..... | W. F. Express Co..... | 1 75 |
| | 726 | Freight..... | H. & T. C. Ry. Co..... | 1 24 |
| | 727 | Freight..... | H. & T. C. Ry. Co..... | 1 50 |
| | 728 | Labor..... | H. Adkins et al..... | 26 20 |
| | 729 | Labor..... | P. Wallace..... | 73 00 |
| | 730 | Labor..... | George Grupe et al..... | 311 30 |
| | 731 | Freight..... | H. & T. C. Ry. Co..... | 80 |
| | 732 | Freight..... | H. & T. C. Ry. Co..... | 1 80 |
| | 733 | Freight..... | H. & T. C. Ry. Co..... | 6 11 |
| | 734 | Freight..... | H. & T. C. Ry. Co..... | 4 17 |
| | 735 | Telegrams..... | W. U. Telegraph Co..... | 1 00 |
| | 736 | Labor..... | V. Wilbarger..... | 31 00 |
| | 737 | Express..... | W. F. Express Co..... | 2 90 |
| | 738 | Labor..... | E. C. Noble..... | 40 00 |
| | 739 | Labor..... | John Vetter..... | 6 00 |
| | 740 | Labor..... | J. F. Adams..... | 1 00 |
| | 741 | Labor..... | A. E. Withers..... | 10 00 |
| Dec. 30, 1901 | 827 | Salary..... | C. P. Fountain..... | 100 00 |
| | 828 | Salary..... | H. M. Rollins..... | 83 33 |
| | 829 | Salary..... | A. C. Love..... | 88 88 |
| | 830 | Salary..... | E. A. White..... | 25 00 |
| | 831 | Salary..... | W. J. Sowder..... | 100 00 |
| | 832 | Salary..... | George Whitney..... | 100 00 |
| | 833 | Salary..... | H. Ness..... | 22 22 |
| | 834 | Salary..... | W. B. Philpott..... | 22 22 |
| | 835 | Salary..... | L. L. Foster..... | 5 35 |
| | 855 | Botanical equipment..... | Bausch & Lomb Opt. Co..... | 70 75 |
| | 856 | Subscriptions..... | Engineering Magazine..... | 5 00 |
| | 857 | Hardware..... | J. A. Myers..... | 2 75 |
| | 858 | Library..... | Smith & Lewis..... | 7 50 |
| | 859 | Physics supplies..... | Wilson, Jenkins Drug Co..... | 4 60 |
| | 860 | Belts..... | Lilly & Co..... | 30 00 |
| | 861 | Supplies..... | Wilson, Jenkins Drug Co..... | 25 |
| | 862 | Office supplies..... | Bryan Eagle..... | 1 25 |
| | 863 | Reference books..... | T. Haswell..... | 13 60 |
| | 864 | Book case..... | H. Waddell..... | 15 00 |
| | 865 | Boiler..... | Hitchings & Co..... | 68 88 |

Maintenance and Support Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|----------------------------------|-----------------------------|------------------------------|---------|
| Dec. 30, 1901 | 866 | Horticultural supplies..... | Cambridge Bot'l Sup. Co..... | \$ 1 30 |
| | 867 | Glass..... | Drey, Kahn Glass Co..... | 164 58 |
| | 868 | Hardware..... | J. A. Myers..... | 25 68 |
| | 869 | Hardware..... | J. A. Myers..... | 23 30 |
| | 870 | Oil cloth..... | Webb Bros..... | 1 00 |
| | 871 | Taxina..... | Pasteur Vaccine Co..... | 9 00 |
| | 872 | Camera..... | Bausch & Lomb Opt. Co..... | 15 00 |
| | 873 | Reference books..... | W. R. Jenkins..... | 22 50 |
| | 874 | Reference books..... | W. R. Jenkins..... | 14 25 |
| | 875 | Reference books..... | John Law..... | 11 00 |
| | 876 | T. W. cylinder..... | Merchant & Manning..... | 1 34 |
| | 877 | Dairy supplies..... | Creamery Pkg. Co..... | 12 50 |
| | 878 | Dairy supplies..... | Eimer & Amend..... | 41 96 |
| | 879 | Dairy supplies..... | H. McK. Wilson..... | 6 35 |
| | 880 | Scales..... | J. A. Myers..... | 9 49 |
| | 881 | Dairy salt..... | Creamery Pkg. Co..... | 3 00 |
| | 882 | Bran..... | Thompson Seed Co..... | 4 60 |
| | 883 | Hangers..... | F. W. Heitmann & Co..... | 8 16 |
| | 884 | Sulphur..... | Ben S. Read..... | 1 00 |
| | 885 | Laundry supplies..... | Alden, Spears Sons & Co..... | 25 90 |
| | 886 | Oil..... | W. P. Oil Co..... | 17 09 |
| | 887 | Equipment..... | F. W. Heitmann & Co..... | 100 23 |
| | 888 | Drawing needle points..... | Beer & Co..... | 2 02 |
| | 889 | Drawing books..... | John Wiley & Sons..... | 2 00 |
| | 890 | Tool holder..... | Jeansville Iron Works..... | 12 00 |
| | 891 | Tools..... | Armstrong Tool Co..... | 2 60 |
| | 892 | Labor..... | George Jenkins..... | 2 25 |
| | 893 | Hinges..... | Cole Bros..... | 1 20 |
| | 894 | Angle bars..... | Dearborn Foundry Co..... | 26 27 |
| | 895 | Building and repairs..... | Lewis & Weddington..... | 73 80 |
| | 978 | Building..... | Lewis & Weddington..... | 62 50 |
| | 986 | Postage..... | W. C. Boyett..... | 126 60 |
| Jan. 10, 1902 | 1034 | Express..... | W. F. Express Co..... | 90 |
| | 1035 | Freight..... | H. & T. C. Ry. Co..... | 1 50 |
| | 1036 | Physics supplies..... | Brazos Pilot..... | 6 00 |
| | 1037 | Express..... | W. F. Express Co..... | 70 |
| | 1038 | Labor..... | E. C. Noble..... | 40 00 |
| | 1039 | Horses for veterinary..... | J. E. Taylor..... | 10 00 |
| | 1040 | Horse for veterinary..... | W. Gortski..... | 5 00 |
| | 1041 | Postage..... | W. C. Boyett..... | 3 50 |
| | 1042 | Express..... | W. F. Express Co..... | 6 55 |
| | 1043 | Freight..... | H. & T. C. Ry. Co..... | 1 24 |
| | 1044 | Freight..... | H. & T. C. Ry. Co..... | 4 54 |
| | 1045 | Freight..... | H. & T. C. Ry. Co..... | 7 46 |
| | 1046 | Labor..... | Rom Finley..... | 4 00 |
| | 1047 | Labor..... | Grupe et al..... | 315 00 |
| | 1048 | Labor..... | W. J. Andrews..... | 6 75 |
| | 1049 | Labor..... | H. T. Lewis..... | 7 50 |
| | 1050 | Labor..... | J. R. Reese..... | 6 30 |
| | 1051 | Labor..... | H. T. Lewis..... | 41 40 |
| | 1052 | Labor..... | W. J. Andrews..... | 13 50 |
| | 1053 | Labor..... | Aug. Thompson..... | 45 00 |
| | 1054 | Freight..... | H. & T. C. Ry. Co..... | 1 39 |
| | 1055 | Express..... | W. F. Express Co..... | 25 |
| | 1056 | Freight..... | H. & T. C. Ry. Co..... | 1 24 |
| | 1057 | Express..... | W. F. Express Co..... | 2 75 |
| | 1058 | Labor..... | V. Wilbarger..... | 17 00 |
| | 1059 | Telegrams..... | W. U. Telegraph Co..... | 35 |
| | 1060 | Telegrams..... | W. U. Telegraph Co..... | 7 53 |
| | 1061 | Express..... | W. F. Express Co..... | 4 50 |
| | 1062 | Labor on sewer..... | L. Deason..... | 2 50 |
| | 1063 | Traveling expenses..... | J. G. Harrison..... | 13 85 |
| | 1064 | Postage..... | W. C. Boyett..... | 2 00 |
| | 1065 | Cisterns..... | H. & T. C. Ry. Co..... | 12 97 |
| | 1066 | Cisterns..... | H. & T. C. Ry. Co..... | 3 00 |
| Jan. 20, 1902 | 1158 ³ / ₄ | Veterinary medicine..... | Wilson, Jenkins Drug Co..... | 4 95 |
| | 1159 ¹ / ₂ | Chair..... | Levy Bros..... | 1 00 |
| | 1160 ¹ / ₂ | Hardware..... | Cole Bros..... | 14 23 |
| | 1161 | Subscriptions..... | Journal of Microscopy..... | 1 00 |
| | 1162 | Labels..... | Cambridge Sup. Co..... | 2 25 |
| | 1163 | X-Ray..... | Dr. H. Roberts..... | 5 00 |
| | 1164 | Equipment..... | Eastman Pub. Co..... | 59 92 |
| | 1167 | Machinery extras..... | American Well Works..... | 27 25 |
| | 1168 | Connections..... | John Rohan & Sons..... | 35 50 |
| | 1169 | Electric globes..... | Waco Elect. Supply Co..... | 48 90 |
| | 1170 | Exchange..... | De La Vergne Refrig. Co..... | 7 25 |
| | 1171 | Door..... | Garth, Howell & Webb..... | 6 75 |
| | 1172 | Hardware..... | J. A. Myers..... | 1 70 |

Maintenance and Support Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|------------------------|-------------------------------|---------|
| Jan. 20, 1902 | 1173 | Needles..... | Beer & Co..... | \$ 1 42 |
| | 1174 | Campus trees..... | E. W. Kirkpatrick..... | 6 30 |
| | 1175 | Hardware..... | J. A. Myers..... | 12 70 |
| | 1176 | Hardware..... | J. A. Myers..... | 95 |
| | 1177 | Campus trees..... | Thos. Mehan & Sons..... | 7 25 |
| | 1178 | Supplies..... | H. A. Deer..... | 27 51 |
| | 1179 | Office supplies..... | Clarke & Courts..... | 29 69 |
| | 1180 | Oil..... | W. P. Oil Co..... | 21 91 |
| | 1181 | Glass..... | Wilson & Jenkins..... | 4 60 |
| | 1182 | Dairy supplies..... | Creamery Pkg. Co..... | 46 25 |
| | 1183 | Dairy supplies..... | J. A. Myers..... | 50 78 |
| | 1184 | Seeds..... | Thompson Seed Co..... | 7 71 |
| | 1185 | Cotton seed..... | Garth, Howell & Webb..... | 15 75 |
| | 1186 | Corn..... | C. F. Moore..... | 45 10 |
| | 1187 | Rice..... | Howell Bros..... | 2 00 |
| | 1188 | Office supplies..... | T. Haswell..... | 1 35 |
| | 1189 | Desk..... | Kaufman, Meyer & Co..... | 42 50 |
| | 1190 | Horseshoeing..... | W. B. Grice..... | 1 00 |
| | 1191 | Lumber..... | Garth, Howell & Webb..... | 15 52 |
| | 1192 | Tile..... | F. Massy & Co..... | 4 95 |
| | 1193 | Hooks..... | J. A. Myers..... | 1 30 |
| | 1194 | Refunds..... | Mrs. L. L. Foster..... | 42 56 |
| | 1195 | Office supplies..... | Bryan Eagle..... | 30 50 |
| | 1196 | Oil..... | W. P. Oil Co..... | 8 08 |
| | 1197 | Desk calendars..... | Clarke & Courts..... | 75 |
| | 1198 | Snips..... | F. W. Heitmann & Co..... | 3 50 |
| | 1199 | Insurance..... | H. C. Robinson..... | 53 75 |
| | 1200 | Express..... | W. F. Express Co..... | 5 85 |
| | 1201 | Stamps..... | J. V. Love..... | 1 10 |
| | 1202 | Sewer repairs..... | Ahrens & Otto Mfg. Co..... | 9 30 |
| | 1203 | Office supplies..... | T. Haswell..... | 16 00 |
| Jan. 30, 1902 | 1212 | Wood..... | J. H. Suber..... | 161 30 |
| | 1225 | Salary..... | C. P. Fountain..... | 100 00 |
| | 1226 | Salary..... | H. M. Rollins..... | 83 33 |
| | 1227 | Salary..... | A. C. Love..... | 88 88 |
| | 1228 | Salary..... | E. A. White..... | 25 00 |
| | 1229 | Salary..... | W. J. Sowder..... | 100 00 |
| | 1230 | Salary..... | George Whitney..... | 100 00 |
| | 1231 | Salary..... | H. Ness..... | 22 22 |
| | 1232 | Salary..... | W. B. Philpott..... | 22 22 |
| | 1233 | Stoves..... | J. A. Myers..... | 15 52 |
| Feb. 4, 1902 | 1294 | Ratchets..... | Mosher Mfg. Co..... | 6 00 |
| | 1295 | Hardware..... | F. W. Heitmann & Co..... | 29 07 |
| | 1296 | Rubber stamps..... | J. V. Love..... | 35 |
| | 1297 | Dry goods..... | Mistrot Bros..... | 10 00 |
| | 1298 | Dry goods..... | Levy Bros..... | 1 00 |
| | 1299 | Building material..... | Garth, Howell & Webb..... | 26 70 |
| | 1300 | Labor..... | George Jenkins..... | 407 28 |
| | 1301 | Subscriptions..... | Journal of Microscopy..... | 1 00 |
| | 1302 | C. E. equipment..... | Rumsey Mfg. Co..... | 32 07 |
| | 1303 | Lumber..... | Garth, Howell & Webb..... | 2 45 |
| | 1304 | Key..... | Reading Hardware Co..... | 25 |
| | 1305 | Key..... | Yale & Towne Co..... | 36 |
| | 1306 | Reference books..... | T. Haswell..... | 21 00 |
| | 1308 | Office supplies..... | T. Haswell..... | 50 |
| | 1309 | Dairy supplies..... | W. B. Grice..... | 2 50 |
| | 1310 | Hardware..... | J. A. Myers..... | 41 65 |
| | 1311 | Machine supplies..... | F. W. Heitmann & Co..... | 35 76 |
| | 1312 | Machine supplies..... | Cleveland Twist Drill Co..... | 1 50 |
| | 1313 | Office supplies..... | T. Haswell..... | 75 |
| | 1314 | Desk..... | Kaufman, Meyers & Co..... | 28 00 |
| Feb. 10, 1902 | 1315 | Hardware..... | F. W. Heitmann & Co..... | 16 32 |
| | 1316 | Hardware..... | J. A. Myers..... | 1 60 |
| | 1379 | Lock..... | K. K. Hooper..... | 85 |
| | 1380 | Nails, etc..... | W. C. Boyett..... | 2 55 |
| | 1381 | Phone..... | R. H. Whitlock..... | 55 |
| | 1382 | Labor..... | W. S. Wilson..... | 27 00 |
| | 1383 | Clock..... | Goodman & Miller..... | 5 00 |
| | 1384 | Labor..... | C. Roberts..... | 10 65 |
| | 1385 | Telegrams..... | W. U. Telegraph Co..... | 4 53 |
| | 1386 | Cisterns..... | Dan Ward..... | 30 00 |
| | 1387 | Cisterns..... | Dan Ward..... | 10 00 |
| | 1388 | Sewer repairs..... | J. L. Deason et al..... | 5 00 |
| | 1389 | Sewer repairs..... | J. L. Deason et al..... | 5 15 |
| | 1390 | Sewer repairs..... | A. Harris et al..... | 59 70 |
| | 1391 | Sewer repairs..... | A. Harris et al..... | 108 25 |
| | 1392 | Express..... | W. F. Express Co..... | 1 10 |
| | 1393 | Freight..... | H. & T. C. Ry. Co..... | 28 86 |

Maintenance and Support Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|--------------------------------|---------------------------------|---------|
| Feb. 10, 1902 | 1394 | Freight..... | H. & T. C. Ry. Co..... | \$ 4 00 |
| | 1395 | Architect..... | H. T. Phelps..... | 5 00 |
| | 1396 | Architect..... | W. C. Dodson..... | 5 00 |
| | 1397 | Architect..... | Jas. Hull..... | 5 00 |
| | 1398 | Freight..... | H. & T. C. Ry. Co..... | 2 03 |
| | 1399 | Express..... | W. F. Express Co..... | 1 05 |
| | 1400 | Feed..... | Treasury account..... | 30 00 |
| | 1401 | Express..... | W. F. Express Co..... | 35 |
| | 1402 | Labor..... | August Thomson..... | 46 00 |
| | 1403 | Office book..... | W. C. Boyett..... | 75 |
| | 1404 | Horse for veterinary..... | H. Johnson..... | 10 00 |
| | 1405 | Labor..... | Prince Adams..... | 4 50 |
| | 1406 | Postage..... | W. C. Boyett..... | 5 00 |
| | 1407 | Labor..... | John Metzger..... | 40 00 |
| | 1408 | Express..... | W. F. Express Co..... | 75 |
| | 1409 | Express..... | W. F. Express Co..... | 4 55 |
| | 1410 | Express..... | W. F. Express Co..... | 1 80 |
| | 1411 | Telegrams..... | W. U. Telegraph Co..... | 50 |
| | 1412 | Labor..... | Louis Parks..... | 4 50 |
| | 1413 | Labor..... | Grupe et al..... | 322 65 |
| | 1414 | Labor..... | E. A. Withers..... | 32 50 |
| | 1415 | Labor..... | E. A. Withers..... | 8 75 |
| | 1416 | Labor..... | J. Bookman et al..... | 3 55 |
| | 1417 | Labor..... | E. C. Noble..... | 40 00 |
| | 1418 | Labor..... | Prince Adams..... | 3 00 |
| | 1419 | Repairs, labor..... | W. J. Andrews..... | 35 25 |
| | 1420 | Repairs, labor..... | W. J. Andrews..... | 20 40 |
| | 1421 | Repairs, labor..... | W. J. Andrews..... | 18 75 |
| | 1422 | Repairs, labor..... | W. J. Andrews..... | 21 00 |
| | 1423 | Repairs, labor..... | W. J. Andrews..... | 22 35 |
| | 1424 | Freight..... | H. & T. C. Ry. Co..... | 3 17 |
| | 1425 | Express..... | W. F. Express Co..... | 1 35 |
| | 1426 | Freight..... | H. & T. C. Ry. Co..... | 1 74 |
| | 1427 | Freight..... | H. & T. C. Ry. Co..... | 84 |
| | 1435 | Wood..... | J. H. Suber..... | 178 20 |
| | 1436 | Machinery supplies..... | Fairbank Co..... | 11 25 |
| | 1437 | Machinery supplies..... | Norton Emery Wheel Co..... | 1 38 |
| | 1438 | Machinery supplies..... | Webb Bros..... | 40 |
| Feb. 18, 1902 | 1439 | Hardware..... | J. A. Myers..... | 26 12 |
| | 1507 | Machinery..... | Northern Elect. Co..... | 855 67 |
| | 1508 | Machinery..... | Waco Elect. Supply Co..... | 9 73 |
| | 1509 | Machinery supplies..... | F. W. Heitmann & Co..... | 18 74 |
| | 1510 | Machinery supplies..... | Webb Bros..... | 2 40 |
| | 1511 | Postage..... | W. C. Boyett..... | 10 60 |
| | 1512 | Oil..... | W. P. Oil Co..... | 71 47 |
| | 1513 | Stationery..... | Von Boeckman, Schutze & Co..... | 2 00 |
| | 1514 | Machinery supplies..... | Cook Well Co..... | 33 05 |
| | 1515 | Machinery supplies..... | J. A. Myers..... | 1 71 |
| | 1516 | Physics equipment..... | Rourke & James..... | 14 62 |
| | 1517 | Equipment..... | Electrician Pub. Co..... | 9 03 |
| | 1518 | X-Ray..... | G. F. Townsend..... | 20 00 |
| | 1519 | Hardware..... | J. A. Myers..... | 1 70 |
| | 1520 | Books..... | Ginn & Co..... | 4 72 |
| | 1521 | Hardware..... | J. A. Myers..... | 2 50 |
| | 1522 | Hardware..... | J. A. Myers..... | 2 50 |
| | 1523 | Seats..... | Montgomery, Ward & Co..... | 6 48 |
| | 1524 | Office supplies..... | Brazos Pilot..... | 3 00 |
| | 1525 | Office furniture..... | Clarke & Courts..... | 42 75 |
| | 1526 | Seed..... | J. M. Thorburn & Co..... | 90 |
| | 1527 | Seed..... | J. M. Thorburn & Co..... | 9 22 |
| | 1528 | Hardware..... | J. A. Myers..... | 13 20 |
| | 1529 | Seed..... | Mehan & Sons..... | 94 |
| | 1530 | Lantern..... | J. A. Myers..... | 1 00 |
| | 1531 | Veterinary supplies..... | Wilson & Jenkins..... | 3 34 |
| | 1532 | Horse for Veterinary Dept..... | R. H. Sealk..... | 10 00 |
| | 1533 | Tapeworm..... | W. T. Jones..... | 2 50 |
| | 1534 | Hardware..... | Cole Bros..... | 65 |
| Feb. 28, 1902 | 1535 | Dairy supplies..... | Cole Bros..... | 18 05 |
| | 1536 | Dairy supplies..... | Burwell & Co..... | 6 62 |
| | 1537 | Dairy supplies..... | Creamery Packing Co..... | 12 66 |
| | 1538 | Building material..... | Garth, Howell & Webb..... | 37 75 |
| | 1539 | Building material..... | Wagner & Brandon..... | 30 |
| | 1540 | Building material..... | Ben S. Read..... | 25 |
| | 1558 | Salary..... | H. M. Rollins..... | 83 33 |
| | 1559 | Salary..... | A. C. Love..... | 88 88 |
| | 1560 | Salary..... | E. A. White..... | 25 00 |
| | 1561 | Salary..... | W. J. Sowder..... | 100 00 |
| | 1562 | Salary..... | G. S. Whitney..... | 100 00 |

Maintenance and Support Account continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|--------------------------------|---------------------------------|----------|
| Feb. 28, 1902 | 1563 | Salary..... | H. Ness..... | \$ 22 22 |
| | 1564 | Salary..... | W. B. Philpott..... | 22 22 |
| Mar. 10, 1902 | 1646 | Office supplies..... | T. Haswell..... | 1 60 |
| | 1647 | Phone rent..... | Bryan Tel. Co..... | 10 50 |
| | 1648 | Supplies..... | Cole Bros..... | 14 30 |
| | 1649 | Building material..... | Garth, Howell & Webb..... | 15 39 |
| | 1650 | Black boards..... | A. H. Andrews Co..... | 20 00 |
| | 1651 | Locks..... | Corbin Cabinet Lock Co..... | 6 13 |
| | 1652 | Hardware..... | F. W. Heitmann & Co..... | 9 40 |
| | 1653 | Building material..... | Garth, Howell & Webb..... | 179 93 |
| | 1654 | Hardware..... | F. W. Heitmann & Co..... | 2 85 |
| | 1655 | Supplies..... | T. Haswell..... | 2 95 |
| | 1656 | Sewer supplies..... | Cahill, Swift Mfg. Co..... | 330 23 |
| | 1657 | Seeds..... | Thorburn Seed Co..... | 6 58 |
| | 1658 | Seeds..... | Thos. Mehan..... | 38 |
| | 1659 | Books..... | McMillan & Co..... | 1 10 |
| | 1660 | Books..... | Lemcle & Buechner..... | 84 58 |
| | 1661 | Reference books..... | W. R. Jenkins..... | 7 00 |
| | 1662 | X-Ray..... | G. R. Townsend..... | 53 16 |
| | 1663 | Machinery supplies..... | F. W. Heitmann & Co..... | 118 67 |
| | 1664 | Machinery supplies..... | Manning, Maxwell & Moore..... | 22 44 |
| | 1665 | Machinery supplies..... | John Wiley & Sons..... | 5 00 |
| | 1666 | Hardware..... | J. A. Myers..... | 38 95 |
| | 1667 | Machinery supplies..... | American Well Works..... | 13 50 |
| | 1668 | Nails..... | Garth, Howell & Webb..... | 2 40 |
| | 1669 | Belt..... | J. T. Hanway..... | 1 00 |
| | 1670 | Laundry kettle..... | Laundry Mch. Co..... | 22 75 |
| | 1722 | Express..... | W. F. Express Co..... | 2 40 |
| | 1723 | Freight..... | H. & T. C. Ry. Co..... | 3 05 |
| | 1724 | Telegrams..... | W. U. Telegraph Co..... | 4 65 |
| | 1725 | Labor..... | C. F. Roberts..... | 40 00 |
| | 1726 | Labor..... | Thos. Crowley..... | 40 00 |
| | 1727 | Office supplies..... | T. Haswell..... | 1 50 |
| | 1728 | Repairing piano..... | Mrs. J. G. Harrison..... | 10 00 |
| | 1729 | Labor..... | T. F. Carson..... | 10 00 |
| | 1730 | Labor..... | Wm. Finley..... | 20 00 |
| | 1731 | Traveling expenses..... | H. H. Harrington..... | 9 60 |
| | 1732 | Traveling expenses..... | H. H. Harrington..... | 5 50 |
| | 1733 | Hauling..... | Prince Adams..... | 9 00 |
| | 1734 | Hauling..... | H. Williams..... | 8 95 |
| | 1735 | Hauling..... | M. Jackson..... | 3 10 |
| | 1736 | Traveling expenses..... | M. Francis..... | 5 54 |
| | 1737 | Labor..... | Prince Adams..... | 2 00 |
| | 1738 | Labor..... | E. C. Noble..... | 40 00 |
| | 1739 | Horse for Veterinary Dept..... | M. Jackson..... | 2 50 |
| | 1740 | Moving house..... | J. H. Suber..... | 20 00 |
| | 1741 | Painting..... | E. A. Withers..... | 10 60 |
| | 1742 | Painting..... | E. A. Withers..... | 25 00 |
| | 1743 | Labor..... | W. J. Andrews..... | 21 00 |
| | 1744 | Labor..... | W. J. Andrews et al..... | 14 00 |
| | 1745 | Freight..... | H. & T. C. Ry. Co..... | 30 00 |
| | 1746 | Freight..... | H. & T. C. Ry. Co..... | 12 50 |
| | 1747 | Labor..... | F. G. Butting et al..... | 99 00 |
| | 1748 | Labor..... | D. Ward et al..... | 60 00 |
| | 1749 | Labor..... | D. Ward et al..... | 10 00 |
| | 1750 | Express..... | W. F. Express Co..... | 60 |
| | 1751 | Labor..... | H. Williams..... | 75 |
| | 1752 | Military flag..... | Montgomery, Ward & Co..... | 6 50 |
| | 1753 | Express..... | W. F. Express Co..... | 25 |
| | 1754 | Labor..... | L. Parks..... | 4 50 |
| | 1755 | Freight..... | H. & T. C. Ry. Co..... | 2 26 |
| | 1756 | Labor..... | John Metzger..... | 40 00 |
| | 1757 | Freight..... | H. & T. C. Ry. Co..... | 2 34 |
| | 1758 | Labor..... | Aug. Thomson..... | 45 00 |
| | 1759 | Express..... | W. F. Express Co..... | 60 |
| | 1760 | Express..... | W. F. Express Co..... | 45 |
| | 1761 | Hard ware..... | J. A. Myers..... | 25 |
| | 1762 | Freight..... | H. & T. C. Ry. Co..... | 1 24 |
| | 1763 | Express..... | W. F. Express Co..... | 50 |
| | 1764 | Freight..... | H. & T. C. Ry. Co..... | 4 35 |
| | 1765 | Freight..... | H. & T. C. Ry. Co..... | 10 95 |
| | 1769 | Labor..... | Grupe et al..... | 355 00 |
| | 1770 | Labor repairs..... | W. J. Andrews..... | 20 40 |
| | 1773 | Brick..... | Geo. Jenkins..... | 64 50 |
| | 1774 | Wood..... | J. H. Suber..... | 351 00 |
| Mar. 22, 1902 | 1824 | Oil..... | Wilson & Jenkins..... | 75 |
| | 1825 | Catalogues..... | Von Boeckman, Schutze & Co..... | 20 72 |
| | 1826 | Ink..... | Ben S. Read..... | 75 |

Maintenance and Support Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-----------------------------------|---------------------------------|---------|
| Mar. 22, 1902 | 1827 | Labor..... | A. Ramsey..... | \$ 1 50 |
| | 1828 | Labor..... | W. J. Andrews..... | 28 00 |
| | 1829 | Labor..... | H. Williams..... | 3 50 |
| | 1830 | Labor..... | M. Jackson..... | 3 25 |
| | 1831 | Labor on cisterns..... | M. Jackson..... | 5 70 |
| | 1832 | Veterinary equipment..... | F. W. Axtin..... | 11 45 |
| | 1833 | Veterinary supplies..... | Wilson & Jenkins..... | 9 10 |
| | 1834 | Iron pipe..... | Peden & Co..... | 17 51 |
| | 1835 | Books..... | Blakeston Sons Co..... | 4 76 |
| | 1836 | Tank..... | Reichardt & Schulte..... | 100 00 |
| | 1837 | Instruments..... | John Reynolds & Co..... | 1 85 |
| | 1838 | Tools..... | Cole Bros..... | 4 56 |
| | 1839 | Blocks..... | J. J. Jones..... | 3 36 |
| | 1840 | Labor..... | I. J. Purking..... | 3 00 |
| | 1841 | Labor..... | Andrews et al..... | 21 00 |
| | 1842 | Labor..... | J. T. Adams..... | 7 50 |
| | 1843 | Labor..... | B. & J. Jackson..... | 3 75 |
| | 1844 | Labor..... | M. Jackson..... | 7 50 |
| | 1845 | Labor..... | F. G. Buttery..... | 52 30 |
| | 1846 | Labor..... | Prince Adams..... | 3 40 |
| | 1847 | Dipper..... | Cole Bros..... | 35 |
| | 1848 | Oil..... | W. P. Oil Co..... | 15 33 |
| | 1849 | Electric supplies..... | Waco Elect. Supply Co..... | 76 48 |
| | 1850 | Leather..... | J. T. Hanway..... | 7 50 |
| | 1851 | Labor..... | T. O. Bullard..... | 3 50 |
| | 1852 | Labor..... | H. Williams..... | 5 50 |
| | 1853 | Campus trees..... | Baker Bros..... | 2 25 |
| | 1854 | Nails..... | J. A. Myers..... | 50 |
| Mar. 30, 1902 | 1899 | Salary..... | H. M. Rollins..... | 83 33 |
| | 1900 | Salary..... | A. C. Love..... | 88 88 |
| | 1901 | Salary..... | E. A. White..... | 25 00 |
| | 1902 | Salary..... | W. J. Sowder..... | 100 00 |
| | 1903 | Salary..... | G. S. Whitney..... | 100 00 |
| | 1904 | Salary..... | H. Ness..... | 22 22 |
| | 1905 | Salary..... | W. B. Philpott..... | 22 22 |
| | 1948 | Contingent, postage..... | W. C. Boyett..... | 26 06 |
| | 1951 | Wood..... | J. H. Suber..... | 142 77 |
| Apr. 12, 1902 | 2016 | Contingent, hardware..... | J. A. Myers..... | 22 41 |
| | 2017 | Contingent, hardware..... | J. A. Myers..... | 1 00 |
| | 2018 | Contingent, supplies..... | Cahill, Swift Mfg. Co..... | 4 10 |
| | 2019 | Contingent, lampblack..... | T. Haswell..... | 20 |
| | 2020 | Contingent, lumber..... | Garth, Howell & Webb..... | 25 42 |
| | 2021 | Galvanized iron..... | F. W. Heitmann..... | 15 00 |
| | 2022 | Contingent, repairs..... | W. B. Grice..... | 1 40 |
| | 2023 | Contingent, telephone rent..... | Bryan Tel. Co..... | 2 50 |
| | 2024 | Contingent, books..... | J. J. Pastoriza..... | 90 |
| | 2025 | Contingent, printing..... | Bryan Eagle..... | 36 00 |
| | 2026 | Contingent, postal guide..... | Geo. F. Lasher..... | 2 00 |
| | 2027 | Steam plant supplies..... | Cahill, Swift Mfg. Co..... | 67 49 |
| | 2028 | Steam plant supplies..... | Stanley Elect. Mfg. Co..... | 12 50 |
| | 2029 | Steam plant laundry supplies..... | Alden Spears Sons & Co..... | 10 35 |
| | 2030 | Steam plant supplies..... | F. W. Heitmann & Co..... | 35 69 |
| | 2031 | Steam plant hardware..... | F. W. Heitmann & Co..... | 13 17 |
| | 2032 | M. E. hardware..... | F. W. Heitmann & Co..... | 14 58 |
| | 2033 | M. E. repairs..... | Manning, Maxwell & Moore..... | 65 |
| | 2034 | M. E. stationery..... | Capital City Book Co..... | 6 92 |
| | 2035 | M. E. repairs..... | Garth, Howell & Webb..... | 19 75 |
| | 2036 | M. E. supplies..... | J. A. Myers..... | 50 25 |
| | 2037 | M. E. supplies..... | A. L. Robbins, Martin & Co..... | 30 42 |
| | 2038 | M. E. supplies..... | Beaumont Iron Works..... | 3 55 |
| | 2039 | Bot. supplies..... | So. Fruit Co..... | 72 00 |
| | 2040 | Drawing, lumber..... | Bering Mfg. Co..... | 26 68 |
| | 2041 | Drawing material..... | F. Weber & Co..... | 17 59 |
| | 2042 | Drawing material..... | S. F. Beer & Co..... | 6 65 |
| | 2043 | Drawing material..... | Jno. Wiley & Sons..... | 9 40 |
| | 2044 | C. E. equipment..... | F. Weber & Co..... | 85 61 |
| | 2045 | Horticultural seed..... | T. H. Thompson & Co..... | 4 30 |
| | 2046 | Horticultural books..... | McMillam & Co..... | 5 00 |
| | 2047 | Agricultural dairy supplies..... | P. M. Sharples..... | 7 34 |
| | 2048 | Agricultural dairy..... | H. M. Wilson..... | 3 00 |
| | 2049 | Agricultural seed..... | T. H. Thompson..... | 1 80 |
| | 2050 | Campus, tools..... | J. A. Myers..... | 15 15 |
| | 2051 | Campus, seed..... | J. M. Thorburn & Co..... | 4 70 |
| | 2052 | Campus, trees..... | Thos. Meehan & Sons..... | 6 00 |
| | 2053 | Veterinary drugs..... | Wilson & Jenkins..... | 5 15 |
| | 2054 | Veterinary books..... | Hanosman & Dunn..... | 9 50 |
| | 2055 | Veterinary hardware..... | J. A. Myers..... | 2 50 |
| | 2056 | Veterinary harness..... | J. T. Hanway..... | 1 50 |

Maintenance and Support Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|------------------------------|-----------------------------|---------|
| Apr. 12, 1902 | 2057 | Veterinary supplies..... | W. Robertson..... | \$ 1 50 |
| | 2058 | Additional water supply..... | Garth, Howell & Webb..... | 71 00 |
| | 2096 | C. F. labor..... | Powers et al..... | 24 00 |
| | 2097 | C. F. labor..... | Tom Hudson et al..... | 7 00 |
| | 2098 | C. F. labor..... | J. F. Adams..... | 16 00 |
| | 2099 | C. F. labor..... | T. J. Buttery..... | 10 50 |
| | 2100 | C. F. labor..... | A. E. Withers..... | 20 90 |
| | 2101 | C. F. labor..... | F. Foster..... | 6 70 |
| | 2102 | C. F. labor..... | V. Struter..... | 25 00 |
| | 2103 | C. F. labor..... | C. Roberts..... | 40 00 |
| | 2104 | C. F. labor..... | I. J. Purkins..... | 5 50 |
| | 2105 | C. F. labor..... | P. Carson..... | 10 00 |
| | 2106 | C. F. labor..... | William Finley..... | 40 00 |
| | 2107 | C. F. express..... | W. F. Express Co..... | 1 60 |
| | 2108 | C. F. express..... | W. F. Express Co..... | 25 |
| | 2109 | C. F. expenses..... | H. H. Martin..... | 2 75 |
| | 2110 | C. F. bath suits..... | H. & T. C. Ry. Co..... | 49 |
| | 2111 | C. F. freight..... | H. & T. C. Ry. Co..... | 2 10 |
| | 2112 | C. F. freight..... | H. & T. C. Ry. Co..... | 2 20 |
| | 2113 | C. F. piano..... | Mrs. J. G. Harrison..... | 14 65 |
| | 2114 | C. F. telegram..... | W. U. Telegraph Co..... | 3 19 |
| | 2115 | Additional water supply..... | Mr. Jackson..... | 17 85 |
| | 2116 | Additional water supply..... | Mr. Jackson..... | 6 75 |
| | 2117 | Additional water supply..... | W. Magee..... | 3 00 |
| | 2118 | Additional water supply..... | F. Landrum..... | 30 90 |
| | 2119 | Additional water supply..... | T. G. Buttery et al..... | 29 35 |
| | 2120 | Labor..... | R. E. Freeze..... | 13 50 |
| | 2121 | Labor..... | F. Landrum..... | 16 85 |
| | 2122 | Labor..... | J. Jackson..... | 11 85 |
| | 2123 | Horticultural express..... | W. F. Express Co..... | 40 |
| | 2124 | Agricultural labor..... | John Metzgar..... | 40 00 |
| | 2125 | Agricultural labor..... | S. Bloodworth..... | 32 00 |
| | 2126 | Agricultural hay..... | M. M. Carpenter..... | 42 59 |
| | 2127 | Agricultural freight..... | H. & T. C. Ry. Co..... | 2 82 |
| | 2128 | Agricultural express..... | W. F. Express Co..... | 1 00 |
| | 2129 | M. E. labor..... | F. Foster et al..... | 4 70 |
| | 2130 | M. E. labor..... | T. Hudson et al..... | 3 50 |
| | 2131 | M. E. labor..... | T. G. Buttery et al..... | 7 20 |
| | 2132 | M. E. labor..... | T. G. Buttery et al..... | 30 65 |
| | 2133 | M. E. labor, express..... | W. F. Express Co..... | 2 85 |
| | 2134 | M. E. freight..... | H. & T. C. Ry. Co..... | 3 33 |
| | 2135 | M. E. freight..... | H. & T. C. Ry. Co..... | 1 73 |
| | 2136 | S. P. labor..... | H. Williams..... | 5 50 |
| | 2137 | S. P. labor..... | H. Williams..... | 90 |
| | 2138 | S. P. freight..... | H. & T. C. Ry. Co..... | 8 62 |
| | 2139 | S. P. freight..... | H. & T. C. Ry. Co..... | 6 02 |
| | 2140 | S. P. freight..... | H. & T. C. Ry. Co..... | 3 08 |
| | 2141 | S. P. freight..... | H. & T. C. Ry. Co..... | 26 00 |
| | 2142 | S. P. freight..... | H. & T. C. Ry. Co..... | 38 |
| | 2144 | Military freight..... | H. & T. C. Ry. Co..... | 13 24 |
| | 2145 | Military express..... | W. F. Express Co..... | 1 15 |
| | 2146 | Military express..... | W. F. Express Co..... | 50 |
| | 2147 | Drawing express..... | W. F. Express Co..... | 1 40 |
| | 2148 | Campus labor..... | A. Thomson et al..... | 60 00 |
| | 2149 | Campus express..... | W. F. Express Co..... | 4 20 |
| | 2150 | Campus express..... | W. F. Express Co..... | 35 |
| | 2151 | Veterinary labor..... | E. C. Noble..... | 40 00 |
| | 2152 | Veterinary labor..... | W. Y. Bain..... | 5 00 |
| | 2153 | Physics freight..... | H. & T. C. Ry. Co..... | 2 27 |
| | 2154 | E. E. expenses..... | J. C. Nagle..... | 32 05 |
| | 2155 | C. F. express..... | W. F. Express Co..... | 50 |
| Apr. 30, 1902 | 2171 | Salary..... | H. M. Rollins..... | 83 33 |
| | 2172 | Salary..... | A. C. Love..... | 88 88 |
| | 2173 | Salary..... | E. A. White..... | 25 00 |
| | 2174 | Salary..... | W. J. Sowder..... | 100 00 |
| | 2175 | Salary..... | G. S. Whitney..... | 100 00 |
| | 2176 | Salary..... | H. Ness..... | 22 22 |
| | 2177 | Salary..... | W. B. Philpott..... | 22 22 |
| | 2275 | Steam plant plugs..... | Michigan Lub. Co..... | 86 |
| | 2276 | Steam plant hardware..... | J. A. Myers..... | 1 67 |
| | 2277 | Steam plant pulley..... | Revres Pulley Co..... | 2 88 |
| | 2278 | Steam plant sups..... | Waco Elect. Sup. Co..... | 51 85 |
| | 2279 | Steam plant sups..... | Western Elect. Sup. Co..... | 37 91 |
| | 2280 | C. F. sups..... | J. A. Myers..... | 19 99 |
| | 2281 | Contgt. bath suits..... | Slayden, Kirksey W. M..... | 110 63 |
| | 2282 | Contgt. sups..... | F. W. Heitmann & Co..... | 5 22 |
| | 2283 | Additional water sup..... | Garth, Howell & Webb..... | 17 50 |
| | 2284 | Additional water sup..... | F. W. Heitmann & Co..... | 20 24 |

Maintenance and Support Account.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-----------------------------|--------------------------------|---------|
| Apr. 30, 1902 | 2285 | M. E. repairs | Howell Bros. | \$ 1 00 |
| | 2286 | M. E. repairs | Garth, Howell & Webb | 7 00 |
| | 2287 | M. E. hardware | J. A. Myers | 50 98 |
| | 2288 | Campus hardware | J. A. Myers | 6 65 |
| | 2289 | Bott. sups. | Luncke & Buechner | 6 79 |
| | 2290 | Agl. express | W. F. Express Co | 4 00 |
| | 2291 | Physics sups | A. L. Robbins & Martin | 45 00 |
| | 2292 | Physics stationery | T. Haswell | 5 30 |
| | 2293 | C. E. lumber | Garth, Howell & Webb | 26 73 |
| | 2294 | Hortl. trees | Stark Bros. | 4 50 |
| | 2295 | Drawing alphabet | H. W. Poor | 25 |
| | 2293 | Steam plant hauling | J. Jones | 5 50 |
| | 2354 | Steam plant labor | G. Grupe et al. | 351 00 |
| | 2367 | M. E. labor | A. Harrison et al | 2 80 |
| | 2368 | Lumber M. E. | Garth, Howell & Webb | 3 45 |
| | 2369 | M. E. sups. | L. M. Ramsey Mfg. Co. | 10 20 |
| | 2370 | Contgt. long distance | S. W. Tel. Co. | 1 50 |
| | 2371 | Contgt. rent | Bryan Tel. Co. | 2 50 |
| | 2372 | Contgt. staty. | T. Haswell | 20 00 |
| | 2373 | Contgt. stationery | Clarke & Courts | 13 00 |
| May 15, 1902 | 2374 | Contgt. hardware | J. A. Myers | 13 90 |
| | 2375 | Contgt. repairs | M. L. Robbins, Martin Co. | 13 75 |
| | 2376 | Contgt. staty. | T. Haswell | 1 50 |
| | 2377 | Contgt. labor | George Jenkins | 77 92 |
| | 2378 | Steam plant repairs | Detroit Lub. Co. | 1 85 |
| | 2379 | Steam plant valve | Cook, Well & Co. | 28 98 |
| | 2380 | Hortl. equpt. | J. A. Myers | 15 40 |
| | 2381 | Hortl. drugs | M. H. James & Co. | 2 25 |
| | 2382 | Contgt. printing | Bryan Eagle | 2 00 |
| | 2383 | Military stationery | Clarke & Courts | 10 00 |
| | 2384 | Contght. hardware | J. A. Myers | 15 |
| | 2385 | Contgt. rope | T. L. Cross & Co. | 1 88 |
| | 2586 | Campus hardware | J. A. Myers | 80 |
| | 2588 | Contgt. T. paper | A. P. W. Paper Co. | 16 00 |
| | 2543 | Agl. labor | John Metzgar | 40 00 |
| | 2544 | Agl. labor, express | W. F. Express Co | 1 70 |
| | 2545 | Hortl. labor | W. J. Andrews | 1 00 |
| | 2546 | Hortl. express | W. F. Express Co | 40 |
| | 2547 | M. E. express | W. F. Express Co | 1 45 |
| | 2548 | M. E. express | W. F. Express Co | 60 |
| May 30, 1902 | 2549 | Steam plant freight | H. & T. C. Ry. Co. | 3 30 |
| | 2550 | Steam plant labor | Wm. Rust | 3 50 |
| | 2551 | Steam plant labor | George Grupe | 375 10 |
| | 2552 | Steam plant hauling | B. K. Knowler | 75 |
| | 2553 | Steam plant freight | H. & T. C. Ry. Co | 38 |
| | 2554 | Steam plant freight | H. & T. C. Ry. Co | 1 60 |
| | 2555 | Steam plant express | W. F. Express Co | 1 15 |
| | 2556 | Contgt. express | W. F. Express Co | 1 60 |
| | 2557 | Contgt. telegram | W. U. Telegraph Co. | 3 80 |
| | 2558 | Contgt. freight | H. & T. C. Ry. Co. | 3 11 |
| | 2559 | Contgt. labor | Dan Ward et al. | 4 50 |
| | 2560 | Contgt. labor | Dan Ward et al. | 6 50 |
| | 2561 | Contgt. labor | Powers et al. | 18 00 |
| | 2562 | Contgt. labor | F. Landrum et al. | 22 40 |
| | 2563 | Contgt. labor | W. Finley | 40 00 |
| | 2564 | Contgt. labor | C. W. Roberts | 40 00 |
| | 2565 | Contgt. labor | T. F. Carson | 35 |
| | 2566 | Vety. labor | E. C. Noble | 40 00 |
| | 2567 | Bott. freight | I. & G. N. Ry. Co. | 8 00 |
| | 2568 | Campus labor | Thompson & Fredrick | 72 00 |
| May 30, 1902 | 2628 | Salary | H. M. Rollins | 83 33 |
| | 2629 | Salary | A. C. Love | 88 88 |
| | 2630 | Salary | E. A. White | 25 00 |
| | 2631 | Salary | W. J. Sowder | 100 00 |
| | 2632 | Salary | G. S. Whitney | 100 00 |
| | 2633 | Salary | H. Ness | 25 22 |
| | 2634 | Salary | W. B. Philpott | 25 22 |
| | 2673 | M. E. water conn. | L. M. Rumsey Mfg. Co. | 2 55 |
| | 2674 | M. E. fittings | F. W. Heitmann & Co. | 11 58 |
| | 2675 | M. E. sups. | F. W. Heitmann & Co. | 7 39 |
| | 2676 | C. F. copy cloths | J. J. Pastoriza & Co. | 1 15 |
| | 2677 | C. F. vouchers | Bryan Eagle | 8 00 |
| | 2678 | C. F. stationery | Clarke & Courts | 1 35 |
| | 2679 | C. F. stationery | T. Haswell | 85 |
| May 30, 1902 | 2680 | Military off. sups | T. Haswell | 4 50 |
| | 2681 | Addtl. water sup. | Dean Pump Co. | 211 00 |
| | 2682 | Steam plant valves | Hoopers Mfg. Co. | 6 00 |
| | 2683 | Steam plant sups | Waco Elect. Sup. Co. | 12 50 |

Maintenance and Support Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|------------------------------|-----------------------------|----------|
| May 30, 1902 | 2684 | Steam plant sups..... | F. W. Heitmann & Co..... | \$ 25 50 |
| | 2685 | Steam plant sups..... | National Ammonia Co..... | 46 80 |
| | 2714 | Steam plant type writer..... | K. K. Hooper..... | 89 70 |
| June 10, 1902 | 2734 | Salary..... | H. M. Rollins..... | 27 77 |
| | 2735 | Salary..... | A. C. Love..... | 29 62 |
| | 2736 | Salary..... | E. A. White..... | 12 50 |
| | 2737 | Salary..... | W. J. Sowder..... | 33 33 |
| | 2738 | Salary..... | G. S. Whitney..... | 33 33 |
| | 2739 | Salary..... | H. Ness..... | 7 40 |
| | 2740 | Salary..... | W. B. Philpott..... | 7 40 |
| | 2767 | Contgt. sermon..... | J. B. French..... | 25 00 |
| | 2768 | Contgt. address..... | H. M. Garwood..... | 25 00 |
| | 2769 | Contgt. freight..... | I. & G. N. Ry. Co..... | 1 48 |
| | 2770 | Contgt. express..... | W. F. Express Co..... | 1 70 |
| | 2771 | Contgt. express..... | W. F. Express Co..... | 1 35 |
| | 2772 | Contgt. express..... | W. F. Express Co..... | 1 15 |
| | 2773 | Contgt. express..... | W. F. Express Co..... | 95 |
| | 2774 | Contgt. express..... | W. F. Express Co..... | 55 |
| | 2775 | Contgt. labor..... | B. Jackson et al..... | 7 00 |
| | 2776 | Contgt. labor..... | L. W. Limper..... | 3 50 |
| | 2777 | Contgt. labor..... | Wm. Friday..... | 40 00 |
| | 2778 | Contgt. hauling..... | D. M. Mize..... | 75 |
| | 2779 | Contgt. labor..... | C. Roberts..... | 40 00 |
| | 2780 | Contgt. stationery..... | T. Haswell..... | 10 00 |
| | 2781 | Contgt. phone..... | S. W. Tel. Co..... | 1 60 |
| | 2782 | Contgt. labor..... | Mary Brookman..... | 4 00 |
| | 2783 | Military express..... | W. F. Express Co..... | 30 |
| | 2784 | Military flags..... | Montgomery, Ward & Co..... | 3 17 |
| | 2785 | Agl. express..... | W. F. Express Co..... | 1 25 |
| | 2786 | Steam plant labor..... | T. A. Moore et al..... | 50 10 |
| | 2787 | Steam plant freight..... | H. & T. C. Ry. Co..... | 4 20 |
| | 2788 | Steam plant express..... | W. F. Express Co..... | 1 85 |
| | 2789 | Steam plant labor..... | Geo. Grupe et al..... | 364 75 |
| | 2790 | M. E. freight..... | I. & G. N. Ry. Co..... | 8 35 |
| | 2791 | M. E. freight..... | H. & T. C. Ry. Co..... | 1 39 |
| | 2792 | M. E. express..... | W. F. Express Co..... | 3 40 |
| | 2793 | Campus labor..... | Aug. Thomson et al..... | 72 00 |
| | 2794 | Hortl. freight..... | H. & T. C. Ry. Co..... | 1 35 |
| July 1, 1902 | 2884 | Addtl. water sup..... | Garth, Howell & Webb..... | 36 12 |
| | 2885 | Contgt. repairs..... | W. B. Grice..... | 4 75 |
| | 2886 | Contgt. material..... | Garth, Howell & Webb..... | 7 65 |
| | 2887 | Contgt. lumber..... | Garth, Howell & Webb..... | 8 70 |
| | 2888 | Contgt. hardware..... | F. W. Heitmann & Co..... | 70 |
| | 2889 | Contgt. hardware..... | J. A. Myers..... | 28 56 |
| | 2890 | Contgt. hardware..... | J. A. Myers..... | 1 95 |
| | 2891 | M. E. repairs..... | Beaumont Iron Works..... | 1 00 |
| | 2892 | M. E. repairs..... | Eddy Elect. Mfg. Co..... | 95 |
| | 2893 | M. E. repairs..... | F. W. Heitmann & Co..... | 26 38 |
| | 2894 | M. E. sups..... | Brown & Sharp Mfg. Co..... | 49 85 |
| | 2946 | Steam plant supplies..... | Stanley Elect. Mfg. Co..... | 88 09 |
| | 2947 | Steam plant hoistg. mch..... | J. A. Myers..... | 262 28 |
| | 2948 | Steam plant oil..... | W. P. Oil Co..... | 15 60 |
| | 2949 | Steam plant supplies..... | Cutter Elect. Mfg. Co..... | 20 25 |
| | 2950 | Steam plant supplies..... | Garth, Howell & Webb..... | 5 00 |
| | 2951 | Steam plant supplies..... | Garth, Howell & Webb..... | 12 29 |
| | 2952 | Steam plant supplies..... | Cahill, Swift Mfg. Co..... | 8 26 |
| | 2953 | Agl. feed..... | E. C. Harder & Co..... | 2 70 |
| | 2954 | Bott. supplies..... | Torrey Bott. Club..... | 3 00 |
| | 2955 | Campus off. sups..... | Levy Bros..... | 17 50 |
| | 2956 | Campus hardware..... | J. A. Myers..... | 29 95 |
| | 2957 | C. E. expense..... | J. C. Nagle..... | 19 95 |
| | 2958 | C. E. insts..... | W. & L. E. Gurley..... | 38 50 |
| | 2959 | Contgt. off. sups..... | Clarke & Courts..... | 5 70 |
| | 3046 | Steam plant valve..... | American Well Works..... | 7 50 |
| | 3047 | Steam plant sups..... | Western Elect. Sup. Co..... | 16 65 |
| | 3048 | Steam plant fire clay..... | Garth, Howell & Webb..... | 1 00 |
| | 3049 | Contgt. ducking..... | Webb Bros..... | 8 75 |
| | 3078 | Steam plant labor..... | L. Deason et al..... | 27 30 |
| | 3079 | Steam plant express..... | Pacific Express Co..... | 1 55 |
| | 3080 | Steam plant freight..... | H. & T. C. Ry. Co..... | 5 08 |
| | 3081 | Steam plant labor..... | Neff et al..... | 65 60 |
| | 3082 | Agl. freight..... | H. & T. C. Ry. Co..... | 7 07 |
| | 3083 | Contgt. labor..... | C. Roberts..... | 40 00 |
| | 3084 | Contgt. telephone..... | S. W. Tel. Co..... | 90 |
| | 3085 | Contgt. labor..... | A. E. Withers..... | 7 50 |
| | 3086 | Contgt. express..... | W. F. Express Co..... | 3 05 |
| | 3087 | Contgt. telegram..... | W. U. Telegraph Co..... | 40 |
| | 3088 | M. E. freight..... | I. & G. N. Ry. Co..... | 1 34 |

Maintenance and Support Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|--------------|-------------|-----------------------------|-------------------------------|----------|
| July 1, 1902 | 3123 | Steam plant freight..... | H. & T. C. Ry. Co..... | \$ 12 85 |
| | 3124 | Steam plant express..... | W. F. Express Co..... | 75 |
| | 3179 | Steam plant hardware..... | J. A. Myers..... | 5 05 |
| | 3180 | Steam plant sups..... | Waco Elect. Sup. Co..... | 117 43 |
| | 3181 | Steam plant repairs..... | W. B. Grice..... | 2 50 |
| | 3182 | Steam plant repairs..... | Cook, Well & Co..... | 7 50 |
| | 3183 | Steam plant freight..... | H. & T. C. Ry. Co..... | 97 |
| | 3184 | Steam plant express..... | Pacific Express Co..... | 35 |
| | 3185 | Steam plant freight..... | I. & G. N. Ry. Co..... | 57 |
| | 3186 | Steam plant labor..... | T. H. Rone et al..... | 5 70 |
| | 3187 | Steam plant labor..... | Geo. Grupe..... | 141 25 |
| | 3188 | Campus hardware..... | J. A. Myers..... | 2 35 |
| | 3189 | Campus labor..... | Thompson & Fredrick..... | 72 00 |
| | 3190 | Agl. ice..... | Jno. Ingram..... | 17 62 |
| | 3191 | Contgt. ice..... | Jno. Ingram..... | 1 30 |
| | 3192 | Vety. postage..... | W. C. Boyett..... | 2 00 |
| | 3288 | Steam plant stationery..... | Capital City Book Co..... | 2 19 |
| | 3289 | Steam plant sups..... | T. Haswell..... | 1 00 |
| | 3290 | Steam plant pump..... | Geo. F. Blake Mfg. Co..... | 33 04 |
| Aug. 5, 1902 | 3291 | Steam plant hardware..... | J. A. Myers..... | 3 24 |
| | 3292 | Steam plant express..... | W. F. Express Co..... | 1 00 |
| | 3293 | Steam plant express..... | W. F. Express Co..... | 41 |
| | 3294 | Contgt. staty..... | Clarke & Courts..... | 2 50 |
| | 3295 | Contgt. freight..... | H. & T. C. Ry. Co..... | 1 64 |
| | 3296 | Contgt. labor..... | Wm. Finley..... | 40 00 |
| | 3297 | Contgt. staty..... | J. J. Pastoriza..... | 40 |
| | 3298 | Contgt. express..... | W. F. Express Co..... | 80 |
| | 3299 | Agl. labor..... | B. Youngblood..... | 19 98 |
| | 3300 | Drawing sups..... | J. A. Myers..... | 20 |
| | 3326 | Steam plant supplies..... | The Fairbanks Co..... | 55 67 |
| | 3327 | Steam plant sups..... | Waco Elect. Sup. Co..... | 51 66 |
| | 3328 | Steam plant sups..... | F. W. Heitmann & Co..... | 21 09 |
| | 3329 | Steam plant sups..... | De La Vergne Refrig. Co..... | 11 83 |
| | 3330 | Steam plant sups..... | American Engine Co..... | 23 50 |
| | 3331 | Steam plant sups..... | American Steam Pump Co..... | 33 71 |
| | 3332 | Steam plant sups..... | Carbin Cabinet Lock Co..... | 54 |
| | 3333 | Steam plant labor..... | Geo. Grupe et al..... | 130 00 |
| | 3334 | Steam plant labor..... | R. H. Rone et al..... | 1 25 |
| | 3335 | Steam plant labor..... | Frank Barnes et al..... | 3 75 |
| | 3336 | Steam plant freight..... | H. & T. C. Ry. Co..... | 3 44 |
| | 3337 | Steam plant freight..... | I. & G. N. Ry. Co..... | 2 63 |
| | 3338 | Contgt. paint..... | Garth, Howell & Webb..... | 2 10 |
| | 3339 | Contgt. off. sups..... | T. Haswell..... | 3 60 |
| | 3340 | Contgt. poison..... | N. McDougald..... | 85 |
| | 3341 | Contgt. watchman..... | Wm. Finley..... | 40 00 |
| | 3342 | Campus labor..... | A. Thomson et al..... | 72 00 |
| | 3343 | Drawing sups..... | Kueffel & Esser..... | 2 52 |
| | 3437 | Contgt. ice..... | Jno. Ingram..... | 2 61 |
| | 3483 | Steam plant freight..... | H. & T. C. Ry. Co..... | 1 27 |
| | 3484 | Steam plant freight..... | H. & T. C. Ry. Co..... | 3 81 |
| | 3485 | Steam plant freight..... | H. & T. C. Ry. Co..... | 10 40 |
| | 3486 | Steam plant freight..... | H. & T. C. Ry. Co..... | 16 47 |
| | 3487 | Steam plant freight..... | H. & T. C. Ry. Co..... | 1 20 |
| | 3488 | Steam plant labor..... | Geo. Grupe et al..... | 130 00 |
| | 3489 | Steam plant express..... | Pacific Express Co..... | 30 |
| | 3490 | Steam plant freight..... | I. & G. N. Ry. Co..... | 7 99 |
| | 3491 | Steam plant freight..... | I. & G. N. Ry. Co..... | 1 70 |
| | 3492 | Steam plant supplies..... | Direct Separator Co..... | 85 50 |
| | 3493 | Steam plant supplies..... | F. W. Heitmann & Co..... | 12 99 |
| | 3494 | Steam plant supplies..... | Burt Manufacturing Co..... | 26 55 |
| | 3495 | Steam plant supplies..... | Von Boeckmann Schutze..... | 5 81 |
| | 3496 | Botanical express..... | W. F. Express Co..... | 9 60 |
| | 3497 | Botanical equipment..... | Bausch & Lomb Optical Co..... | 27 51 |
| | 3498 | Botanical equipment..... | J. L. Hammett Co..... | 7 50 |
| | 3499 | Botanical equipment..... | Western Publishing House..... | 10 00 |
| | 3500 | Botanical feed..... | Farm dept. treasury acct..... | 42 00 |
| | 3501 | Botanical supplies..... | Cambridge Botanical Co..... | 17 50 |
| | 3502 | Campus hardware..... | J. A. Myers..... | 11 40 |
| | 3503 | Campus hardware..... | J. A. Myers..... | 10 70 |
| | 3504 | Campus hardware..... | Johnston Harvester Co..... | 5 23 |
| | 3510 | Campus labor..... | A. Thomson et al..... | 72 00 |
| | 3521 | C. F. express..... | W. F. Express Co..... | 2 45 |
| | 3522 | C. F. telegram..... | W. U. Telegraph Co..... | 25 |
| | 3523 | C. F. ice..... | John Ingram..... | 2 74 |
| | 3545 | C. E. expense..... | J. C. Nagle..... | 9 70 |
| | 3560 | Drawing supplies..... | The Prang Edtl. Co..... | 8 25 |
| | 3561 | Drawing supplies..... | J. A. Myers..... | 2 50 |

\$ 45,660 65

Maintenance and Support Account—continued.

| | |
|---|--------------|
| By balance last report..... | \$ 10,167 89 |
| appropriation Twenty-seventh Legislature..... | 10,000 00 |
| appropriation Twenty-seventh Legislature, called session..... | 25,000 00 |
| Expended..... | \$ 45,660 65 |
| Overcheck transferred to College Treasury account..... | \$ 492 76 |

GENERAL REPAIRS ACCOUNT.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-------------------------|------------------------------|---------|
| Sept. 7, 1900 | 352 | Hardware | J. A. Myers..... | \$ 80 |
| | 353 | Labor..... | Thomson et al..... | 37 75 |
| | 354 | Labor..... | W. J. Andrews..... | 5 50 |
| | 355 | Freight..... | H. & T. C. Ry. Co..... | 40 40 |
| | 535 | Express..... | W. F. Express Co..... | 1 40 |
| | 536 | Freight..... | H. & T. C. Ry. Co..... | 20 90 |
| | 537 | Labor..... | J. H. Wilson..... | 9 75 |
| | 538 | Glass..... | Pittsburg Glass Co..... | 49 88 |
| | 539 | Lumber..... | Garth, Howell & Webb..... | 12 13 |
| | 540 | Cement..... | New England Cement Co..... | 30 00 |
| | 541 | Wire..... | F. W. Heitmann & Co..... | 15 00 |
| | 542 | Labor..... | A. E. Withers..... | 15 00 |
| | 543 | Labor..... | A. E. Withers..... | 9 25 |
| | 544 | Labor..... | J. L. Hart..... | 15 70 |
| Oct. 10, 1900 | 626 | Lumber..... | Garth, Howell & Webb..... | 10 00 |
| | 691 | Freight..... | H. & T. C. Ry. Co..... | 12 25 |
| | 692 | Labor..... | Wm. Andrews et al..... | 31 85 |
| | 693 | Labor..... | Wm. Andrews et al..... | 18 95 |
| | 694 | Labor..... | Wm. Andrews et al..... | 19 00 |
| | 695 | Labor..... | W. Winter..... | 29 90 |
| | 696 | Labor..... | W. Winter..... | 52 00 |
| | 697 | Labor..... | W. Winter et al..... | 6 10 |
| | 698 | Labor..... | W. Winter et al..... | 31 75 |
| | 699 | Labor..... | A. E. Withers..... | 15 00 |
| | 700 | Labor..... | J. L. Deason..... | 2 75 |
| | 701 | Labor..... | A. C. Moser..... | 65 50 |
| | 737 | Labor..... | M. L. Wallace et al..... | 1 80 |
| Oct. 20, 1900 | 789 | Material..... | R. McWilliams..... | 130 58 |
| | 790 | Material..... | Geo. Jenkins..... | 32 95 |
| | 791 | Material..... | Geo. Jenkins..... | 22 50 |
| | 792 | Material..... | F. S. Wilcox..... | 16 60 |
| | 793 | Material..... | Garth, Howell & Webb..... | 27 33 |
| | 794 | Material..... | Garth, Howell & Webb..... | 3 00 |
| | 795 | Labor..... | F. J. Youngblood..... | 75 50 |
| | 824 | Labor..... | Necco & Eisman..... | 71 50 |
| | 826 | Labor..... | T. G. Buttery..... | 80 |
| Oct. 30, 1900 | 936 | Labor..... | T. R. Batte et al..... | 5 06 |
| Nov. 10, 1900 | 937 | Freight..... | H. & T. C. Ry. Co..... | 16 50 |
| | 1028 | Cement..... | T. J. Chapman..... | 75 |
| | 1029 | Hardware..... | J. A. Myers..... | 251 30 |
| | 1067 | Material and labor..... | Necco & Eisman..... | 21 90 |
| Nov. 30, 1900 | 1180 | Labor..... | Necco & Eisman..... | 30 40 |
| | 1181 | Labor..... | Necco & Eisman..... | 1 35 |
| | 1182 | Express..... | W. F. Express Co..... | 10 06 |
| | 1183 | Labor..... | A. E. Withers..... | 36 95 |
| | 1184 | Labor..... | T. G. Buttery..... | 31 09 |
| | 1185 | Labor..... | W. J. Andrews..... | 13 21 |
| Dec. 20, 1900 | 1423 | Labor..... | A. E. Withers..... | 32 00 |
| May 30, 1901 | 2920 | Freight..... | H. & T. C. Ry. Co..... | 6 68 |
| | 2921 | Freight..... | H. & T. C. Ry. Co..... | 1 70 |
| | 2922 | Freight..... | H. & T. C. Ry. Co..... | 29 13 |
| | 2923 | Glass..... | James Bute..... | 74 70 |
| | 2924 | Oil..... | N. Randolph & Sons..... | 48 00 |
| | 2925 | Cement..... | Wm. Parr & Co..... | 23 90 |
| June 10, 1901 | 2926 | Alabastine..... | The Alabastine Co..... | 50 00 |
| | 3069 | Labor..... | Grigg & Dodson..... | 3 50 |
| | 3143 | Labor..... | W. J. Andrews..... | 16 00 |
| | 3144 | Labor..... | Dodson & Grigg..... | 10 00 |
| June 20, 1901 | 3145 | Labor..... | Dodson & Grigg..... | 14 95 |
| | 3146 | Supplies..... | Garth, Howell & Webb..... | 9 50 |
| | 3147 | Supplies..... | Garth, Howell & Webb..... | 4 40 |
| | 3148 | Glass..... | James Bute..... | 2 90 |
| | 3270 | Bends..... | Houston Plumbing Co..... | 7 97 |
| | 3271 | Wire..... | Waco Electric Supply Co..... | 9 35 |
| | 3272 | Hardware..... | J. A. Myers..... | 55 05 |
| | 3273 | Labor..... | A. E. Withers..... | 9 60 |
| | 3274 | Sand..... | J. W. Robinson & Co..... | 10 00 |
| | 3275 | Freight..... | H. & T. C. Ry. Co..... | |

General Repairs Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|--------------------------|------------------------------|---------|
| June 15, 1901 | 3276 | Freight..... | H. & T. C. Ry. Co..... | \$ 6 10 |
| | 3277 | Freight..... | H. & T. C. Ry. Co..... | 47 |
| | 3278 | Freight..... | H. & T. C. Ry. Co..... | 47 |
| July 15, 1901 | 3477 | Labor..... | Wm. Andrews..... | 6 75 |
| | 3478 | Labor..... | T. G. Buttery et al..... | 82 00 |
| | 3479 | Labor..... | A. E. Withers..... | 56 40 |
| | 3480 | Freight..... | H. & T. C. Ry. Co..... | 37 |
| | 3481 | Labor..... | Dodson & Grigg..... | 43 70 |
| July 26, 1901 | 3567 | Hardware..... | J. A. Myers..... | 77 47 |
| | 3568 | Material..... | Garth, Howell & Webb..... | 22 88 |
| | 3569 | Labor..... | T. G. Buttery et al..... | 79 65 |
| | 3570 | Labor..... | A. E. Withers..... | 17 70 |
| | 3571 | Electrical supplies..... | Waco Electric Supply Co..... | 20 68 |
| | 3572 | Freight..... | H. & T. C. Ry. Co..... | 45 |
| Aug. 16, 1901 | 3666 | Labor..... | Geo. Jenkins..... | 60 03 |
| | 3667 | Hardware..... | J. A. Myers..... | 27 35 |
| | 3668 | Material..... | F. W. Heitmann & Co..... | 5 05 |
| Aug. 30, 1901 | 3907 | Hardware..... | Garth, Howell & Webb..... | 85 |
| | 3908 | Material..... | Garth, Howell & Webb..... | 10 75 |
| | 3909 | Material..... | Garth, Howell & Webb..... | 3 30 |
| | 3910 | Labor..... | A. E. Withers..... | 15 00 |
| | 3911 | Labor..... | W. J. Andrews..... | 41 65 |
| | 3912 | Freight..... | W. F. Express Co..... | 1 50 |
| Oct. 30, 1901 | 4239 | Hardware..... | C. L. & Theo. Bering..... | 28 97 |
| | 240 | Hardware..... | C. L. & Theo. Bering..... | 21 30 |
| Nov. 11, 1901 | 378 | Labor..... | W. J. Andrews..... | 31 25 |
| | 379 | Material..... | Garth, Howell & Webb..... | 9 57 |
| | 418 | Labor..... | M. L. Wallace..... | 23 90 |
| Nov. 15, 1901 | 498 | Freight..... | H. & T. C. Ry. Co..... | 12 80 |
| | 499 | Freight..... | H. & T. C. Ry. Co..... | 25 |
| | 500 | Express..... | W. F. Express Co..... | 35 |
| | 501 | Labor..... | T. G. Buttery et al..... | 57 15 |
| Nov. 30, 1901 | 611 | Sand..... | Nash, Robinson & Co..... | 13 20 |
| | 612 | Cement..... | Garth, Howell & Webb..... | 159 25 |
| | 613 | Doors..... | Garth, Howell & Webb..... | 16 88 |
| Dec. 20, 1901 | 766 | Freight..... | H. & T. C. Ry. Co..... | 84 |
| | 767 | Labor..... | T. G. Buttery..... | 45 25 |
| | 768 | Labor..... | T. G. Buttery..... | 59 00 |
| | 769 | Labor..... | W. J. Andrews..... | 34 50 |
| Dec. 30, 1901 | 931 | Paint..... | Garth, Howell & Webb..... | 3 45 |
| | 932 | Glass..... | T. Haswell..... | 129 92 |
| | 933 | Labor..... | T. G. Buttery et al..... | 26 25 |
| | 934 | Lumber..... | Garth, Howell & Webb..... | 5 62 |
| Jan. 10, 1902 | 1089 | Labor..... | W. J. Andrews..... | 6 75 |
| | 1090 | Labor..... | G. Washington..... | 1 00 |
| | 1091 | Supplies..... | J. A. Myers..... | 1 30 |
| Feb. 4, 1902 | 1292 | Material..... | Garth, Howell & Webb..... | 6 00 |
| Feb. 10, 1902 | 1433 | Labor..... | T. G. Buttery et al..... | 39 40 |
| | 1434 | Labor..... | T. G. Buttery et al..... | 53 35 |
| Mar. 10, 1902 | 1636 | Labor..... | Necco & Eisman..... | 7 00 |
| | 1637 | Material..... | Garth, Howell & Webb..... | 90 |
| Mar. 22, 1902 | 1878 | Labor..... | T. G. Buttery et al..... | 71 65 |
| Apr. 30, 1902 | 2355 | Labor..... | Landman et al..... | 6 90 |
| | 2356 | Labor..... | T. G. Buttery et al..... | 9 20 |
| May 15, 1902 | 2423 | Labor..... | Geo. Jenkins..... | 18 00 |
| | 2424 | Iron columns..... | Mosher Manufacturing Co..... | 498 00 |
| | 2513 | Labor..... | McNeally et al..... | 30 00 |
| | 2514 | Labor..... | T. J. Caywood..... | 15 15 |
| | 2515 | Freight..... | H. & T. C. Ry. Co..... | 1 48 |
| May 30, 1902 | 2698 | Material..... | Garth, Howell & Webb..... | 7 90 |
| | 2699 | Material..... | F. W. Heitmann & Co..... | 8 00 |
| June 10, 1902 | 2807 | Labor..... | McNeally et al..... | 33 75 |
| | 2808 | Express..... | W. F. Express Co..... | 50 |
| | 2809 | Labor..... | McNeally et al..... | 30 00 |
| | 2810 | Labor..... | A. E. Withers..... | 11 75 |
| | 2811 | Labor..... | McNeally et al..... | 30 00 |
| | 2812 | Labor..... | McNeally et al..... | 30 00 |
| | 2813 | Express..... | W. F. Express Co..... | 1 65 |
| July 1, 1902 | 2968 | Lumber..... | Garth, Howell & Webb..... | 20 35 |
| | 2969 | Hardware..... | J. A. Myers..... | 20 13 |
| | 3037 | Material..... | Garth, Howell & Webb..... | 41 43 |
| | 3038 | Material..... | Garth, Howell & Webb..... | 38 62 |
| | 3093 | Labor..... | McNeally & Co..... | 20 00 |
| | 3094 | Labor..... | McNeally & Co..... | 31 80 |
| July 30, 1902 | 3243 | Labor..... | T. J. Adams..... | 8 75 |
| | 3244 | Labor..... | T. J. Adams..... | 10 50 |
| | 3245 | Labor..... | Adams et al..... | 14 55 |
| | 3246 | Labor..... | A. E. Withers..... | 3 50 |

General Repairs Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|--------------------|---------------------------|-------------|
| July 30, 1902 | 3247 | Labor..... | J. S. Harrison | \$ 35 35 |
| | 3248 | Freight..... | H. & T. C. Ry. Co..... | 3 78 |
| | 3249 | Freight..... | H. & T. C. Ry. Co..... | 8 06 |
| | 3250 | Labor..... | McNeally & Co..... | 21 00 |
| | 3251 | Material..... | Garth, Howell & Webb..... | 40 55 |
| | 3252 | Material..... | Garth, Howell & Webb..... | 18 54 |
| | 3253 | Material..... | Garth, Howell & Webb..... | 62 06 |
| Aug. 22, 1902 | 3244 | Material..... | Giles Wall Paper Co..... | 117 73 |
| | 3245 | Material..... | Nalle & Co..... | 158 00 |
| | 3246 | Material..... | Haldeman & Co..... | 53 00 |
| | 3247 | Material..... | Garth, Howell & Webb..... | 4 20 |
| | 3248 | Material..... | Garth, Howell & Webb..... | 36 66 |
| | 3249 | Freight..... | H. & T. C. Ry. Co..... | 1 97 |
| | 3250 | Freight..... | H. & T. C. Ry. Co..... | 2 01 |
| | 3251 | Freight..... | I. & G. N. Ry. Co..... | 1 47 |
| | 3252 | Labor..... | A. Necco..... | 2 00 |
| | 3253 | Labor..... | Adams et al..... | 20 05 |
| | 3254 | Labor..... | Adams et al..... | 30 10 |
| | 3255 | Labor..... | T. J. Adams..... | 10 50 |
| | 3256 | Labor..... | J. W. McNeally..... | 65 00 |
| | 3257 | Labor..... | Tom Hudson et al..... | 13 30 |
| | | | | \$ 4,873 97 |

By balance last report..... \$ 1,360 08
 appropriation Twenty-seventh Legislature..... 1,000 00
 appropriation Twenty-seventh Legislature, called session..... 2,500 00
 Expended.....\$ 4,873 97
 Overcheck transferred to College Treasury..... 13 98

\$ 4,873 97 \$ 4,873 97

AGRICULTURAL AND HORTICULTURAL BUILDING AND EQUIPMENT.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|----------------|-------------|------------------------------|--------------------------|-----------|
| Aug. 30, 1900 | 283 | Superintendent's salary..... | W. P. Goodloe..... | \$ 100 00 |
| Sept. 4, 1900 | 299 | Contract payment..... | Jenkins & Robb | 2,431 39 |
| | 401 | Contract payment..... | Jenkins & Robb..... | 1,200 00 |
| Sept. 24, 1900 | 402 | Contract payment..... | Jenkins & Robb..... | 1,106 25 |
| Sept. 30, 1900 | 404 | Superintendent's salary..... | W. P. Goodloe..... | 100 00 |
| Oct. 5, 1900 | 548 | Telegrams..... | W. U. Telegraph Co..... | 4 20 |
| | 549 | Sand..... | H. & T. C. Ry. Co..... | 23 48 |
| Oct. 9, 1900 | 591 | Contract payment..... | Jenkins & Robb..... | 1,062 75 |
| | 625 | Sand..... | J. W. Robinson & Co..... | 14 40 |
| Oct. 12, 1900 | 689 | Sand..... | H. & T. C. Ry. Co..... | 12 50 |
| | 690 | Traveling expenses..... | W. P. Goodloe..... | 11 00 |
| | 785 | Sand..... | MacAtee & Sons..... | 21 00 |
| | 786 | Labor..... | A. Smoot..... | 10 00 |
| Oct. 20, 1900 | 823 | Contract payment..... | Jenkins & Robb..... | 2,000 00 |
| Oct. 30, 1900 | 883 | Superintendent's salary..... | W. P. Goodloe..... | 100 00 |
| | 946 | Sand..... | H. & T. C. Ry. Co..... | 12 50 |
| | 947 | Sand..... | H. & T. C. Ry. Co..... | 20 00 |
| | 948 | Sand..... | H. & T. C. Ry. Co..... | 25 00 |
| Nov. 10, 1900 | 1030 | Furniture..... | W. M. C. Hill..... | 80 65 |
| | 1076 | Furniture..... | A. H. Andrews & Co..... | 359 60 |
| Nov. 22, 1900 | 1125 | Sand..... | J. W. Robinson & Co..... | 54 00 |
| | 1126 | Sand..... | J. W. Robinson & Co..... | 14 40 |
| | 1127 | Sand..... | J. W. Robinson & Co..... | 14 40 |
| | 1128 | Sand..... | MacAtee & Sons..... | 16 25 |
| Nov. 30, 1900 | 1186 | Freight..... | H. & T. C. Ry. Co..... | 5 83 |
| | 1187 | Sand..... | H. & T. C. Ry. Co..... | 25 00 |
| | 1188 | Seats | H. & T. C. Ry. Co..... | 19 37 |
| | 1189 | Desks..... | H. & T. C. Ry. Co..... | 10 10 |
| | 1190 | Labor..... | A. Smoot et al..... | 26 70 |
| | 1191 | Telegrams..... | W. U. Telegraph Co..... | 2 34 |
| | 1266 | Superintendent's salary..... | W. P. Goodloe..... | 100 00 |

Agricultural and Horticultural Building and Equipment—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|------------------------------|-------------------------------|----------|
| Dec. 10, 1900 | 1404 | Telegrams..... | W. U. Telegraph Co..... | \$ 0 79 |
| | 1405 | Express..... | W. F. Express Co..... | 2 75 |
| | 1437 | Labor..... | J. Parks et al..... | 4 00 |
| | 1438 | Freight..... | H. & T. C. Ry. Co..... | 7 45 |
| | 1439 | Labor..... | A. Smoot..... | 9 90 |
| | 1440 | Superintendent's salary..... | W. P. Goodloe..... | 100 00 |
| | 1441 | Traveling expenses..... | W. P. Goodloe..... | 11 20 |
| | 1442 | Hardware..... | W. Tips..... | 290 37 |
| | 1443 | Material..... | W. M. C. Hill..... | 54 68 |
| | 1499 | Contract payment..... | Jenkins & Robb..... | 4,911 91 |
| Jan. 15, 1901 | 1576 | Plumbing..... | Hill Bros..... | 950 00 |
| | 1577 | Lead..... | F. W. Heitmann & Co..... | 9 06 |
| | 1652 | Labor..... | Youngblood et al..... | 6 00 |
| | 1653 | Freight..... | H. & T. C. Ry. Co..... | 75 |
| | 1654 | Freight..... | H. & T. C. Ry. Co..... | 10 85 |
| | 1655 | Freight..... | H. & T. C. Ry. Co..... | 29 90 |
| Jan. 26, 1901 | 1711 | Lock..... | J. A. Myers..... | 75 |
| | 1712 | Furniture..... | W. M. C. Hill..... | 71 06 |
| Feb. 18, 1901 | 1975 | Equipment..... | W. M. C. Hill..... | 38 50 |
| | 1976 | Freight..... | H. & T. C. Ry. Co..... | 4 17 |
| | 2275 | Plans..... | H. F. Jonas & Co..... | 46 60 |
| Apr. 23, 1901 | 2558 | Equipment..... | A. H. Andrews & Co..... | 18 00 |
| May 10, 1901 | 2732 | Equipment..... | J. A. Myers..... | 76 04 |
| | 2733 | Equipment..... | W. M. C. Hill..... | 37 13 |
| | 2835 | Freight..... | H. & T. C. Ry. Co..... | 2 50 |
| May 30, 1901 | 2919 | Freight..... | H. & T. C. Ry. Co..... | 8 26 |
| June 10, 1901 | 3141 | Desk..... | Chas. Alvord..... | 35 00 |
| | 3192 | Equipment..... | W. M. C. Hill..... | 31 37 |
| June 30, 1901 | 3279 | Equipment..... | Sprague Canning Co..... | 2 70 |
| | 3280 | Equipment..... | Sprague Canning Co..... | 2 70 |
| | 3281 | Equipment..... | Sinclair, Scott Co..... | 11 00 |
| | 3282 | Equipment..... | A. K. Robins & Co..... | 70 31 |
| | 3283 | Equipment..... | George Jenkins..... | 45 00 |
| | 3284 | Hardware..... | J. A. Myers..... | 41 39 |
| | 3285 | Hardware..... | J. A. Myers..... | 15 78 |
| | 3286 | Equipment..... | Clarke & Courts..... | 32 64 |
| | 3287 | Equipment..... | J. B. Colt..... | 57 20 |
| | 3288 | Equipment..... | P. Henderson & Co..... | 18 29 |
| | 3289 | Freight..... | H. & T. C. Ry. Co..... | 1 00 |
| July 15, 1901 | 3398 | Equipment..... | H. & T. C. Ry. Co..... | 3 72 |
| | 3399 | Equipment..... | H. & T. C. Ry. Co..... | 43 57 |
| | 3400 | Equipment..... | H. & T. C. Ry. Co..... | 6 87 |
| | 3401 | Equipment..... | H. & T. C. Ry. Co..... | 1 60 |
| | 3402 | Equipment..... | Garth, Howell & Webb..... | 30 51 |
| | 3403 | Equipment..... | George Jenkins..... | 7 00 |
| | 3404 | Equipment..... | Garth, Howell & Webb..... | 18 10 |
| | 3405 | Equipment..... | H. P. Stacey..... | 16 00 |
| | 3406 | Equipment..... | Eimer & Amend..... | 13 90 |
| July 26, 1901 | 3552 | Equipment..... | Wm. Andrews..... | 6 00 |
| | 3553 | Equipment..... | W. M. C. Hill..... | 73 67 |
| | 3554 | Equipment..... | Creamery Pkg. Mfg. Co..... | 314 20 |
| | 3555 | Equipment..... | Waco Elect. Sup. Co..... | 79 57 |
| | 3556 | Equipment..... | J. A. Myers..... | 14 00 |
| | 3557 | Equipment..... | American School Frnt. Co..... | 1 50 |
| | 3558 | Freight..... | Houston S. C. & C. Co..... | 33 93 |
| | 3559 | Freight..... | H. & T. C. Ry. Co..... | 1 85 |
| | 3560 | Freight..... | H. & T. C. Ry. Co..... | 7 32 |
| | 3561 | Freight..... | H. & T. C. Ry. Co..... | 16 11 |
| Aug. 10, 1901 | 3640 | Contract payment..... | H. & T. C. Ry. Co..... | 3 86 |
| Aug. 16, 1901 | 3674 | Equipment..... | Jenkins & Robb..... | 200 00 |
| | 3675 | Equipment..... | Bausch & Lomb Opt. Co..... | 201 31 |
| | 3676 | Equipment..... | D. H. Burrell & Co..... | 144 75 |
| | 3677 | Equipment..... | D. H. Burrell & Co..... | 26 64 |
| | 3678 | Equipment..... | D. H. Burrell & Co..... | 40 00 |
| Aug. 26, 1901 | 3697 | Equipment..... | Stanley Elect. Mfg. Co..... | 31 50 |
| | 3751 | Equipment..... | Eickelmeyer & Osterhold..... | 200 00 |
| Aug. 30, 1901 | 3797 | Freight..... | H. M. Rollins..... | 60 00 |
| | 3798 | Freight..... | H. & T. C. Ry. Co..... | 2 78 |
| | 3799 | Freight..... | H. & T. C. Ry. Co..... | 1 99 |
| | 3800 | Freight..... | H. & T. C. Ry. Co..... | 16 03 |
| | 3868 | Express..... | H. & T. C. Ry. Co..... | 5 98 |
| | 3869 | Freight..... | W. F. Express Co..... | 4 05 |
| | 3885 | Equipment..... | H. & T. C. Ry. Co..... | 15 07 |
| | 3954 | Equipment..... | J. A. Myers..... | 252 00 |
| Oct. 30, 1901 | 129 | Equipment..... | Garth, Howell & Webb..... | 5 71 |
| | 130 | Equipment..... | Miller Mfg. Co..... | 402 30 |
| | 131 | Equipment..... | Hutchings & Co..... | 253 62 |
| | | Equipment..... | J. J. Pastoriza & Co..... | 75 00 |

Agricultural and Horticultural Building and Equipment—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|------------------------|----------------------------|--------------|
| Oct. 30, 1901 | 132 | Equipment..... | Garth, Howell & Webb..... | \$ 1 40 |
| | 133 | Equipment..... | H. & T. C. Ry. Co..... | 3 40 |
| | 134 | Equipment..... | W. F. Express Co..... | 35 |
| | 135 | Equipment..... | W. J. Andrews..... | 8 50 |
| Nov. 11, 1901 | 338 | Equipment..... | W. J. Andrews..... | 5 60 |
| | 339 | Equipment..... | W. McHill..... | 17 25 |
| Nov. 15, 1901 | 458 | Equipment, scales..... | Fairbanks & Co..... | 150 00 |
| | 491 | Freight..... | H. & T. C. Ry. Co..... | 90 |
| Nov. 30, 1901 | 608 | Equipment..... | Creamery Packing Mfg. Co.. | 55 00 |
| Dec. 12, 1901 | 700 | Boiler exts..... | F. W. Heitmann & Co..... | 40 76 |
| | 701 | Plumbing..... | F. W. Heitmann & Co..... | 8 98 |
| Dec. 20, 1901 | 800 | Equipment..... | D. H. Burrell & Co..... | 27 20 |
| | 801 | Equipment..... | Creamery Packing Mfg. Co.. | 24 20 |
| | 802 | Equipment..... | Creamery Packing Mfg. Co.. | 4 50 |
| | | | | \$ 19,030 16 |

By balance last report..... \$ 16,031 23
 appropriation, Twenty-seventh Legislature..... 3,000 00
 Expended..... \$ 19,030 16
 Lapsed..... 1 07

\$ 19,031 23 \$ 19,031 23

SEWER PLANT ACCOUNT.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|----------------|-------------|----------------------------|----------------------------|---------|
| Sept. 7, 1900 | 325 | Supplies..... | Ahrens & Ott Mfg. Co..... | \$ 9 27 |
| | 326 | Sewer supplies..... | Cahill, Swift Mfg. Co..... | 64 75 |
| | 327 | Sewer supplies..... | Cahill, Swift Mfg. Co..... | 711 75 |
| | 328 | Freight..... | H. & T. C. Ry. Co..... | 1 71 |
| | 329 | Supplies..... | Garth, Howell & Webb..... | 3 50 |
| | 330 | Hardware..... | F. W. Heitmann & Co..... | 4 00 |
| | 331 | Hardware..... | J. A. Myers..... | 1 86 |
| | 332 | Labor..... | Worthing et al..... | 76 45 |
| | 400 | Closets..... | George Jenkins..... | 300 00 |
| Sept. 24, 1900 | 403 | Contract payment..... | George Jenkins..... | 525 00 |
| Oct. 5, 1900 | 545 | Express..... | W. F. Express Co..... | 1 20 |
| | 546 | Labor..... | G. E. Kirkwood..... | 9 00 |
| | 547 | Freight..... | H. & T. C. Ry. Co..... | 5 80 |
| | 706 | Freight..... | H. & T. C. Ry. Co..... | 25 45 |
| | 707 | Express..... | W. F. Express Co..... | 75 |
| | 708 | Labor..... | J. T. Youngblood..... | 6 00 |
| | 710 | Labor..... | Worthing et al..... | 57 75 |
| Oct. 20, 1900 | 776 | Sewer supplies..... | Cahill, Swift Mfg. Co..... | 6 60 |
| | 777 | Sewer supplies..... | Ahrens & Ott Mfg. Co..... | 135 00 |
| | 778 | Sewer supplies..... | Ahrens & Ott Mfg. Co..... | 1 54 |
| | 779 | Lumber..... | Garth, Howell & Webb..... | 39 36 |
| | 780 | Hauling..... | A. Smoot..... | 3 50 |
| | 781 | Sewer supplies..... | Collins Bros..... | 2 25 |
| | 782 | Material..... | George Jenkins..... | 171 05 |
| | 783 | Hardware..... | J. A. Myers..... | 70 |
| | 784 | Sewer supplies, labor..... | Necco & Elsman..... | 50 00 |
| | 942 | Freight..... | H. & T. C. Ry. Co..... | 47 |
| | 943 | Labor..... | J. H. Suber..... | 6 18 |
| | 944 | Freight..... | H. & T. C. Ry. Co..... | 3 60 |
| | 945 | Labor..... | C. B. Soles..... | 25 50 |
| Nov. 10, 1900 | 1031 | Labor..... | George Jenkins..... | 65 00 |
| | 1132 | Tools..... | W. C. Boyett..... | 25 00 |
| Nov. 30, 1900 | 1194 | Freight..... | H. & T. C. Ry. Co..... | 36 84 |
| Dec. 10, 1900 | 1325 | Syphon..... | Pacific Flush Tank Co..... | 18 20 |
| | 1326 | Supplies..... | S. A. Sewer Pipe Co..... | 113 41 |
| | 1327 | Sand..... | J. W. Robinson & Co..... | 15 00 |
| | 1328 | Manhole..... | Mosher Mfg. Co..... | 48 60 |
| | 1329 | Hardware..... | J. A. Myers..... | 9 93 |

Sewer Plant Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-----------------------|---------------------------|--------------------|
| Dec. 10, 1900 | 1375 | Labor..... | John Young, supt..... | \$ 147 15 |
| | 1376 | Labor..... | John Young, supt..... | 83 95 |
| | 1377 | Labor..... | John Young, supt..... | 18 00 |
| | 1378 | Freight and sand..... | H. & T. C. Ry. Co..... | 12 00 |
| | 1422 | Salary..... | John Young, supt..... | 58 15 |
| Dec. 26, 1900 | 1444 | Labor..... | A. Smoot..... | 4 40 |
| | 1445 | Labor..... | John Young et al..... | 154 35 |
| | 1446 | Labor..... | John Young et al..... | 111 40 |
| | 1447 | Expenses..... | J. C. Nagle..... | 25 77 |
| | 1448 | Sewer supplies..... | Garth, Howell & Webb..... | 52 50 |
| Jan. 15, 1901 | 1574 | Sewer supplies..... | Berry Flush Tank Co..... | 15 00 |
| | 1575 | Expenses..... | J. C. Nagle..... | 14 11 |
| Feb. 18, 1901 | 1977 | Putty..... | J. A. Myers..... | 1 25 |
| Feb. 28, 1901 | 2148 | Labor..... | George Jenkins..... | 10 68 |
| | 2149 | Material..... | J. A. Myers..... | 3 05 |
| | 2150 | Sewer supplies..... | Ahrens & Ott Mfg. Co..... | 22 20 |
| | 2222 | Supplies..... | W. C. Boyett..... | 44 |
| | 2223 | Labor..... | John Ramsey..... | 50 |
| | | | | \$ 3,316 87 |

By balance last report..... \$ 3,316 87
 Expended \$ 3,316 87

BEEVILLE SUB-EXPERIMENT STATION.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-------------------------|--------------------------|---------|
| Sept. 7, 1900 | 335 | Rubber stamps, etc..... | J. V. Love..... | \$ 5 35 |
| | 336 | Seed..... | T. W. Wood & Son..... | 28 60 |
| | 337 | Stationery..... | Von Boeckmann & Co..... | 3 50 |
| | 338 | Guano..... | Standard Guano Co..... | 22 50 |
| | 339 | Salary..... | S. A. McHenry..... | 65 00 |
| | 340 | Expenses..... | S. A. McHenry..... | 81 00 |
| | 341 | Seed..... | Livingston Seed Co..... | 45 |
| | 342 | Seed..... | J. M. Thorburn & Co..... | 2 40 |
| | 343 | Seed..... | C. W. Eichling..... | 1 25 |
| | 344 | Seed..... | C. W. Eichling..... | 9 32 |
| Oct. 5, 1900 | 557 | Bulletin..... | Von Boeckmann & Co..... | 254 37 |
| | 558 | Expenses..... | S. A. McHenry..... | 44 05 |
| | 559 | Salary..... | S. A. McHenry..... | 65 00 |
| | 560 | Seed..... | Steckler Seed Co..... | 1 75 |
| | 561 | Expenses..... | I. N. Powell..... | 82 88 |
| | 562 | Expenses..... | Burrows Bros..... | 16 25 |
| | 563 | Oil..... | W. P. Oil Co..... | 16 83 |
| | 564 | Supplies..... | R. Law Lumber Co..... | 24 26 |
| Oct. 12, 1900 | 688 | Traveling expenses..... | B. C. Pittuck..... | 30 20 |
| Nov. 10, 1900 | 1032 | Supplies..... | J. R. Robertson..... | 11 30 |
| | 1033 | Seed..... | C. W. Eichling..... | 4 76 |
| | 1034 | Seed..... | C. W. Eichling..... | 50 |
| | 1035 | Expenses..... | S. A. McHenry..... | 58 70 |
| Nov. 22, 1900 | 1129 | Expenses..... | S. A. McHenry..... | 81 20 |
| | 1130 | Salary..... | S. A. McHenry..... | 65 00 |
| | 1131 | Seed..... | Texas S. and F. Co..... | 10 00 |
| Dec. 10, 1900 | 1330 | Expenses..... | S. A. McHenry..... | 112 35 |
| | 1331 | Salary..... | S. A. McHenry..... | 65 00 |
| | 1332 | Salary..... | S. A. McHenry..... | 65 00 |
| Jan. 15, 1901 | 1571 | Salary..... | S. A. McHenry..... | 65 00 |
| | 1572 | Expenses..... | S. A. McHenry..... | 65 20 |
| | 1651 | Traveling expenses..... | B. C. Pittuck..... | 21 50 |
| Feb. 5, 1901 | 1878 | Guano..... | Hanna & Leonard..... | 5 40 |
| | 1963 | Seed..... | T. W. Wood & Son..... | 1 35 |
| | 1964 | Guano..... | Standard Guano Co..... | 30 00 |
| | 1965 | Hardware..... | Burrows Bros..... | 39 55 |
| | 1966 | Lumber..... | R. Law Lumber Co..... | 12 88 |
| | 1967 | Feed..... | W. H. Ferguson & Co..... | 12 35 |
| | 1968 | Sprayer..... | Leggett & Bro..... | 3 65 |

Beeville Sub-Experiment Station—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|--------------------------|-----------------------------|---------|
| Feb. 5, 1901 | 1969 | Seed..... | T. W. Wood & Son..... | \$ 4 50 |
| | 1970 | Oil..... | W. P. Oil Co..... | 30 56 |
| | 1971 | Salary..... | S. A. McHenry..... | 65 00 |
| | 1972 | Expenses..... | S. A. McHenry..... | 74 70 |
| | 1973 | Seed..... | Selzer Seed Co..... | 2 05 |
| | 1974 | Telegrams..... | W. U. Telegraph Co..... | 36 |
| Feb. 28, 1901 | 2266 | Guano..... | Standard Guano Co..... | 7 00 |
| | 2267 | Trees..... | Holbert's Fig Nursery..... | 3 00 |
| | 2268 | Supplies..... | A. Haak..... | 24 00 |
| | 2269 | Trees..... | G. L. Taber..... | 4 24 |
| | 2270 | Guano..... | Hanna & Leonard..... | 2 50 |
| | 2321 | Salary..... | S. A. McHenry..... | 65 00 |
| | 2322 | Expenses..... | S. A. McHenry..... | 41 65 |
| May 10, 1901 | 2734 | Salary..... | S. A. McHenry..... | 65 00 |
| | 2735 | Expenses..... | S. A. McHenry..... | 61 33 |
| | 2736 | Expenses..... | S. A. McHenry..... | 64 65 |
| | 2737 | Trees..... | Austin Nursery..... | 23 75 |
| | 2738 | Repairs..... | Cuero Machine Shops..... | 1 50 |
| | 2836 | Telegram..... | W. U. Telegraph Co..... | 41 |
| May 30, 1901 | 2903 | Expenses..... | H. G. Hastings & Co..... | 1 40 |
| | 2904 | Salary..... | S. A. McHenry..... | 65 00 |
| | 2905 | Expenses..... | S. A. McHenry..... | 78 97 |
| June 30, 1901 | 3268 | Salary..... | S. A. McHenry..... | 65 00 |
| | 3269 | Expenses..... | S. A. McHenry..... | 103 17 |
| July 26, 1901 | 3547 | Salary..... | S. A. McHenry..... | 65 00 |
| | 3548 | Expenses..... | S. A. McHenry..... | 97 00 |
| | 3549 | Seed..... | Alexander Seed Co..... | 3 00 |
| | 3550 | Expenses..... | W. H. Ferguson & Co..... | 19 50 |
| | 3551 | Oil..... | W. P. Oil Co..... | 8 22 |
| Aug. 30, 1901 | 3748 | Salary..... | S. A. McHenry..... | 65 00 |
| | 3749 | Expenses..... | S. A. McHenry..... | 76 70 |
| | 3750 | Supplies..... | Burrows Hardware Co..... | 273 47 |
| | 3891 | Expenses..... | S. A. McHenry..... | 32 08 |
| | 3892 | Salary..... | S. A. McHenry..... | 65 00 |
| | 3893 | Seed..... | Livingston Seed Co..... | 2 35 |
| | 3894 | Seed..... | Thompson Seed Co..... | 10 50 |
| | 3895 | Seed..... | Steckler Seed Co..... | 50 |
| | 3896 | Seed..... | Reichardt & Schulte..... | 1 50 |
| Nov. 11, 1901 | 372 | Stationery..... | Von Boeckmann & Co..... | 3 50 |
| | 373 | Seeds..... | W. H. Maule..... | 3 00 |
| | 374 | Oil..... | W. P. Oil Co..... | 9 83 |
| | 375 | Hardware..... | Burrows Hardware Co..... | 45 35 |
| | 376 | Expenses..... | S. A. McHenry..... | 98 45 |
| | 377 | Salary..... | S. A. McHenry..... | 65 00 |
| Nov. 30, 1901 | 626 | Expense account..... | S. A. McHenry..... | 30 35 |
| | 627 | Salary..... | S. A. McHenry..... | 65 00 |
| | 628 | Seeds..... | J. K. Robertson..... | 33 30 |
| | 629 | Lumber..... | R. Law Lumber Co..... | 16 66 |
| | 630 | Repairs..... | I. N. Powell..... | 10 90 |
| Feb. 4, 1902 | 1269 | Expenses..... | H. G. Hastings..... | 3 20 |
| | 1270 | Expense account..... | S. A. McHenry..... | 49 07 |
| | 1271 | Salary..... | S. A. McHenry..... | 65 00 |
| | 1272 | Labor..... | S. A. McHenry..... | 53 55 |
| | 1273 | Labor..... | S. A. McHenry..... | 50 00 |
| | 1274 | Salary..... | S. A. McHenry..... | 65 00 |
| Feb. 10, 1902 | 1231 | Traveling expenses..... | B. C. Pittuck..... | 22 65 |
| | 1541 | Salary..... | S. A. McHenry..... | 65 00 |
| | 1542 | Expenses..... | S. A. McHenry..... | 68 50 |
| | 1543 | Expenses..... | J. P. Friez..... | 65 00 |
| | 2002 | Salary and expenses..... | S. A. McHenry..... | 149 80 |
| | 2003 | Expenses..... | S. A. McHenry..... | 109 00 |
| | 2004 | Expenses..... | S. A. McHenry..... | 56 25 |
| | 2005 | Seeds..... | W. H. Maule..... | 5 40 |
| | 2006 | Seeds..... | T. W. Woods & Sons..... | 3 00 |
| | 2007 | Seeds..... | Salver Seed Co..... | 1 15 |
| | 2008 | Seeds..... | Salver Seed Co..... | 1 95 |
| | 2009 | Seeds..... | Ferguson & Nelson..... | 63 85 |
| Apr. 30, 1902 | 2259 | Seeds..... | Texas Seed & Floral Co..... | 14 70 |
| | 2260 | Seeds..... | Texas Seed & Floral Co..... | 2 65 |
| | 2261 | Seeds..... | Eichling Seed Co..... | 3 60 |
| | 2352 | Freight..... | H. & T. C. Ry. Co..... | 1 00 |
| May 15, 1902 | 2475 | Seeds..... | Alexander Seed Co..... | 1 80 |
| | 2476 | Seeds..... | Plant Seed Co..... | 1 15 |
| | 2477 | Seeds..... | J. A. Shine..... | 50 |
| | 2478 | Expenses..... | S. A. McHenry..... | 10 75 |
| | 2479 | Expense account..... | S. A. McHenry..... | 82 90 |
| | 2480 | Expense account..... | S. A. McHenry..... | 145 40 |
| | 2530 | Traveling expenses..... | B. C. Pittuck..... | 25 60 |

Beeville Sub-Experiment Station—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|----------------------------|------------------------------|-------------|
| May 30, 1902 | 2686 | Hardware..... | Burrows Hardware Co..... | \$ 164 78 |
| | 2687 | Hardware..... | Burrows Hardware Co..... | 33 41 |
| | 2688 | Expenses..... | S. A. McHenry..... | 71 60 |
| | 2689 | Lumber..... | R. Law Lumber Co..... | 7 10 |
| July 1, 1902 | 2914 | Repairs and equipment..... | S. A. McHenry..... | 93 00 |
| | 2915 | Repairs and equipment..... | S. A. McHenry..... | 150 00 |
| | 2916 | Repairs and equipment..... | S. A. McHenry..... | 112 55 |
| | 2917 | Repairs and equipment..... | S. A. McHenry..... | 771 06 |
| | 2918 | Expenses..... | S. A. McHenry..... | 171 18 |
| | 3073 | Expenses..... | Hillis Dust Sprayer Co..... | 3 25 |
| | 3074 | Repairs and equipment..... | Burrows Hardware Co..... | 218 93 |
| | 3075 | Repairs and equipment..... | S. A. McHenry..... | 91 65 |
| | 3076 | Expenses..... | Beeville Irrigated Gardens.. | 13 00 |
| | 3077 | Salary..... | S. A. McHenry..... | 103 00 |
| | 3176 | Repairs and equipment..... | R. Law Lumber Co..... | 300 85 |
| | 3177 | Expenses..... | Reichardt & Schulte..... | 20 12 |
| | 3178 | Expenses..... | S. A. McHenry..... | 37 50 |
| July 30, 1902 | 3266 | Repairs and equipment..... | Cuero Machine Shops..... | 3 00 |
| | 3267 | Repairs and equipment..... | R. Law Lumber Co..... | 132 79 |
| | 3268 | Repairs and equipment..... | S. A. McHenry..... | 105 25 |
| | 3269 | Repairs and equipment..... | Goshen Manufacturing Co.. | 12 10 |
| | 3270 | Oil..... | W. P. Oil Co..... | 8 75 |
| | 3271 | Expenses..... | S. A. McHenry..... | 19 55 |
| | 3272 | Telegram..... | W. U. Telegraph Co..... | 40 |
| Aug. 22, 1902 | 3454 | Salary..... | S. A. McHenry..... | 100 00 |
| | 3455 | Expenses..... | S. A. McHenry..... | 38 00 |
| | 3456 | Expenses..... | Standard Guano Co..... | 38 35 |
| | 3457 | Repairs and equipment..... | W. O. Potter..... | 16 78 |
| Aug. 30, 1902 | 3567 | Seed..... | Plant Seed Co..... | 1 75 |
| | 3568 | Salary..... | S. A. McHenry..... | 100 00 |
| | 3575 | Expense account..... | S. A. McHenry..... | 26 55 |
| | 3576 | Expense account..... | S. A. McHenry..... | 41 53 |
| | 3577 | Supplies..... | Peter Henderson & Co..... | 4 48 |
| | 3578 | Supplies..... | W. C. Gunlock..... | 7 25 |
| | 3579 | Supplies..... | Beeville Irrigated Gardens.. | 7 50 |
| | | | | \$ 7,655 63 |

| | |
|---|-------------|
| By balance last report..... | \$ 1,810 21 |
| appropriation, Twenty-seventh Legislature..... | 1,250 00 |
| appropriation, Twenty-seventh Legislature (called session)..... | 5,000 00 |
| Expended..... | \$ 7,655 15 |
| Balance under contract..... | 404 58 |

| | |
|-------------|-------------|
| \$ 8,060 21 | \$ 8,060 21 |
|-------------|-------------|

TROUPE SUB-EXPERIMENT STATION.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-------------------------|-------------------------------|---------|
| Dec. 20, 1901 | 796 | Expenses..... | M. Sansom..... | 19 20 |
| | 798 | Expenses..... | A. C. Oliver..... | 25 65 |
| | 799 | Expenses..... | F. A. Reichardt..... | 37 80 |
| Dec. 30, 1901 | 922 | Expenses..... | J. A. Baker..... | 18 00 |
| Feb. 10, 1902 | 1432 | Traveling expenses..... | Wm. Malone..... | 24 00 |
| Feb. 18, 1902 | 1544 | Salary..... | J. A. Baker..... | 8 30 |
| Mar. 10, 1902 | 1634 | Salary..... | J. A. Baker..... | 5 00 |
| | 1691 | Expenses..... | J. H. Connell..... | 1 40 |
| | 1692 | Expenses..... | K. K. Hooper..... | 80 |
| | 1693 | Expense, express..... | W. F. Express Co..... | 25 |
| Mar. 22, 1902 | 1868 | Expenses..... | M. Francis..... | 7 35 |
| | 1869 | Telegram..... | W. U. Telegraph Co..... | 1 85 |
| | 1870 | Expenses..... | Ford & Ford..... | 30 00 |
| Apr. 12, 1902 | 2010 | Guano..... | Standard Guano Co..... | 15 00 |
| | 2011 | Salary..... | E. P. Stiles..... | 37 50 |
| | 2012 | Seed..... | Livingston Seed Co..... | 75 |
| | 2013 | Seed..... | P. Henderson & Co..... | 1 20 |
| | 2014 | Salary..... | J. A. Baker..... | 5 00 |
| Apr. 26, 1902 | 2015 | Labor..... | H. Atkins..... | 12 00 |
| | 2156 | Labor..... | E. P. Stiles..... | 145 30 |
| | 2157 | Labor..... | E. P. Stiles..... | 54 90 |
| | 2158 | Express..... | W. F. Express Co..... | 50 |
| Apr. 30, 1902 | 2223 | Expenses..... | E. P. Stiles..... | 105 58 |
| | 2224 | Labor..... | E. P. Stiles..... | 6 15 |
| | 2225 | Implements..... | Keating Implement Co..... | 124 40 |
| | 2226 | Implements..... | Keating Implement Co..... | 21 66 |
| | 2227 | Implements..... | Keating Implement Co..... | 54 00 |
| | 2228 | Tools..... | Maroney Hardware Co..... | 9 50 |
| | 2229 | Tools..... | So. Rock Island Plow Co..... | 9 90 |
| | 2230 | Tools..... | B. F. Avery & Sons..... | 86 11 |
| | 2231 | Tools..... | Parlin & Orendorff..... | 57 17 |
| | 2232 | Tools..... | Harry Bros..... | 66 65 |
| | 2233 | Implements..... | Kenyon Hardware Co..... | 96 25 |
| | 2234 | Implements..... | Kenyon Hardware Co..... | 22 09 |
| | 2235 | Implements..... | Kenyon Hardware Co..... | 9 45 |
| | 2236 | Seed..... | Alexander Seed Co..... | 1 70 |
| | 2237 | Seed..... | Eichling Seed Co..... | 1 58 |
| | 2238 | Material..... | T. W. Wood & Son..... | 75 |
| | 2239 | Seed..... | T. H. Thompson Seed Co..... | 35 |
| | 2240 | Seed..... | Texas Seed and Floral Co..... | 75 |
| | 2241 | Seed..... | Texas Seed and Floral Co..... | 1 00 |
| | 2242 | Material..... | T. V. Munson & Son..... | 46 75 |
| | 2243 | Material..... | Bush & Sons..... | 43 32 |
| | 2244 | Seed..... | Continental Plant Co..... | 19 10 |
| | 2245 | Material..... | M. P. Exline Co..... | 25 00 |
| | 2246 | Printing..... | Dorsey Printing Co..... | 52 50 |
| | 2247 | Material..... | E. C. Dodson Saddlery Co..... | 61 75 |
| | 2248 | Survey..... | W. A. Waldert..... | 38 60 |
| | 2249 | Lumber..... | T. W. Brazelton & Co..... | 1 50 |
| | 2250 | Expenses..... | Collier & Spruce..... | 35 |
| | 2251 | Telegram..... | W. U. Telegraph Co..... | 1 90 |
| | 2252 | Stationery..... | Clarke & Courts..... | 9 25 |
| | 2253 | Lumber..... | M. L. Mack..... | 1 00 |
| | 2254 | Surveying..... | W. A. Waldert..... | 5 00 |
| | 2255 | Supplies..... | Melton & Penland..... | 13 55 |
| | 2256 | Supplies..... | Melton & Penland..... | 5 00 |
| | 2257 | Labor..... | J. W. Smith..... | 80 |
| | 2258 | Expenses..... | E. P. Stiles..... | 12 40 |
| | 2259 | Traveling expenses..... | B. C. Pittuck..... | 3 30 |
| | 2260 | Traveling expenses..... | J. H. Connell..... | 22 05 |
| | 2261 | Expenses..... | Jessie Stain..... | 525 00 |
| | 2262 | Expenses..... | R. H. Price..... | 5 00 |
| | 2263 | Expenses..... | R. H. Price..... | 10 55 |
| May 15, 1902 | 2430 | Supplies..... | Jarvis & Melton..... | 27 75 |
| | 2431 | Express..... | W. F. Express Co..... | 5 80 |
| | 2432 | Expenses..... | J. W. Smith..... | 1 90 |
| | 2433 | Expenses..... | E. P. Stiles..... | 50 |
| | 2434 | Expenses..... | E. P. Stiles..... | 8 85 |
| | 2435 | Expenses..... | E. P. Stiles..... | 4 25 |
| | 2436 | Expenses..... | E. P. Stiles..... | 2 15 |
| | 2437 | Expenses..... | E. P. Stiles..... | 7 95 |
| | 2438 | Expenses..... | E. P. Stiles..... | 1 90 |
| | 2439 | Expenses..... | E. P. Stiles..... | 5 00 |
| | 2440 | Expenses..... | E. P. Stiles..... | 75 00 |
| | 2441 | Supplies..... | E. F. Melton..... | 40 00 |
| | 2442 | Supplies..... | Melton & Penland..... | 2 00 |
| | 2443 | Supplies..... | Melton & Penland..... | 39 30 |
| | 2444 | Tools..... | B. F. Avery & Sons..... | 12 90 |

Troupe Sub-Experiment Station—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-------------------------|------------------------------|-------------|
| May 15, 1902 | 2445 | Seed..... | Texas Seed & Floral Co..... | \$ 2 50 |
| | 2446 | Hardware..... | Kinyon Hardware Co..... | 1 50 |
| | 2447 | Salary..... | J. A. Baker..... | 5 00 |
| | 2448 | Hardware..... | Kinyon Hardware Co..... | 19 95 |
| | 2449 | Supplies..... | Collier & Spruce..... | 1 25 |
| | 2450 | Supplies..... | Jarvis & Co..... | 8 80 |
| | 2451 | Telegrams..... | W. U. Telegraph Co..... | 65 |
| | 2531 | Express..... | W. F. Express Co..... | 75 |
| May 30, 1902 | 2690 | Expenses..... | E. P. Stiles..... | 62 50 |
| | 2691 | Expenses..... | E. P. Stiles..... | 35 |
| | 2692 | Expenses..... | E. P. Stiles..... | 24 19 |
| | 2693 | Expenses..... | E. P. Stiles..... | 3 50 |
| | 2694 | Supplies..... | A. J. Moore..... | 8 00 |
| | 2695 | Implements..... | McCormick Mfg. Co..... | 61 75 |
| June 10, 1902 | 2797 | Traveling expenses..... | E. A. White..... | 6 80 |
| | 2798 | Traveling expenses..... | J. H. Connell..... | 9 00 |
| | 2854 | Express..... | W. F. Express Co..... | 5 30 |
| | 2883 | Salary..... | E. P. Stiles..... | 75 00 |
| | 2919 | Posts..... | S. A. McHenry..... | 15 73 |
| | 2-20 | Supplies..... | Jarvis & Co..... | 9 67 |
| | 2921 | Supplies..... | Melton & Penland..... | 19 95 |
| | 2922 | Farm level..... | W. C. Holmes..... | 4 50 |
| | 2923 | Implements..... | Keating Iron & Mfg. Co..... | 2 30 |
| | 2924 | Lumber..... | T. W. Brazelton & Co..... | 1 48 |
| | 2925 | Salary..... | J. A. Baker..... | 5 00 |
| | 2926 | Hardware..... | H. J. Endel..... | 30 30 |
| | 2927 | Expenses..... | E. P. Stiles..... | 24 70 |
| | 2928 | Expenses..... | E. P. Stiles..... | 4 34 |
| | 2929 | Expenses..... | E. P. Stiles..... | 28 15 |
| | 2930 | Expense..... | E. P. Stiles..... | 34 60 |
| | 2931 | Expenses..... | E. P. Stiles..... | 40 00 |
| July 1, 1902 | 3041 | Labor..... | N. F. Coons..... | 40 00 |
| | 3042 | Posts..... | Mrs. H. Smith..... | 64 08 |
| | 3043 | Salary..... | E. P. Stiles..... | 75 00 |
| | 3044 | Labor..... | D. H. Nash..... | 12 00 |
| | 3170 | Salary..... | J. A. Baker..... | 5 00 |
| | 3171 | Material..... | J. A. Myers..... | 12 75 |
| | 3172 | Drugs..... | Wilson & Jenkins..... | 2 90 |
| | 3173 | Expenses..... | E. P. Stiles..... | 21 35 |
| | 3174 | Advertisement..... | Dallas News..... | 84 |
| | 3175 | Postage..... | W. C. Boyett..... | 5 00 |
| July 30, 1902 | 3273 | Expenses..... | J. H. Bothwell..... | 31 70 |
| | 3274 | Expenses..... | J. H. Bothwell..... | 115 58 |
| | 3275 | Expenses..... | E. P. Stiles..... | 26 78 |
| | 3276 | Scales..... | Jones of Binghampton..... | 48 00 |
| Aug. 5, 1902 | 3323 | Salary..... | E. P. Stiles..... | 75 00 |
| | 3324 | Salary..... | J. A. Baker..... | 5 00 |
| Aug. 22, 1902 | 3427 | Labor..... | N. F. Coons..... | 40 00 |
| | 3428 | Expenses..... | E. P. Stiles..... | 20 70 |
| | 3429 | Labor..... | E. P. Stiles..... | 21 25 |
| | 3430 | Expenses..... | E. P. Stiles..... | 12 60 |
| | 3431 | Expenses..... | E. P. Stiles..... | 8 90 |
| | 3432 | Expenses..... | E. P. Stiles..... | 73 03 |
| | 3433 | Labor..... | E. P. Stiles..... | 23 05 |
| | 3434 | Hardware..... | Kenyon Hardware Co..... | 02 94 |
| | 3435 | Hardware..... | J. R. Adams Hardware Co..... | 12 20 |
| Aug. 30, 1902 | 3468 | Salary..... | E. P. Stiles..... | 75 00 |
| | 3469 | Salary..... | J. A. Baker..... | 5 00 |
| | 3519 | Traveling expenses..... | B. C. Pittuck..... | 14 15 |
| | 3554 | Expenses..... | E. P. Stiles..... | 3 60 |
| | 3555 | Expenses..... | E. P. Stiles..... | 6 90 |
| | 3556 | Expenses..... | E. P. Stiles..... | 2 00 |
| | 3557 | Expenses..... | E. P. Stiles..... | 7 25 |
| | 3558 | Expenses..... | E. P. Stiles..... | 14 25 |
| | 3559 | Labor..... | N. F. Coons..... | 40 00 |
| | | | | \$ 3,954 51 |

By appropriation, Twenty-seventh Legislature..... \$ 10,000 00
 Expended \$ 4,007 96
 Balance contracted for buildings and equipments. 5,992 04

\$ 10,000 00 \$ 10,000 00

HOSPITAL FIXTURES ACCOUNT.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|--------------------------|----------------------------|--------------------|
| Aug. 30, 1901 | 3747 | Bedding..... | Levy Bros..... | \$ 109 00 |
| | 3870 | Freight on bedding..... | H. & T. C. Ry. Co..... | 94 |
| | 3871 | Freight on linoleum..... | H. & T. C. Ry. Co..... | 10 34 |
| | 3897 | Bath tubs, etc..... | Cahill, Swift Mfg. Co..... | 70 76 |
| | 3898 | Linoleum..... | H. Waddell..... | 229 20 |
| | 145 | Waste pipe..... | Cahill, Swift Mfg. Co..... | 10 25 |
| Nov. 11, 1901 | 358 | Beds..... | Ostermoor & Co..... | 379 00 |
| | 359 | Beds, freight..... | H. & T. C. Ry. Co..... | 10 40 |
| | 360 | Freight..... | H. & T. C. Ry. Co..... | 12 99 |
| | 361 | Freight..... | H. & T. C. Ry. Co..... | 1 13 |
| Nov. 15, 1901 | 535 | Freight..... | H. & T. C. Ry. Co..... | 31 80 |
| | 536 | Freight..... | H. & T. C. Ry. Co..... | 8 50 |
| Dec. 20, 1901 | 759 | Freight..... | H. & T. C. Ry. Co..... | 6 48 |
| Dec. 30, 1901 | 961 | Hardware..... | J. A. Myers..... | 1 65 |
| | 966 | Furniture..... | J. H. Waddell..... | 68 00 |
| | 967 | Bath tubs..... | Cahill, Swift & Co..... | 42 39 |
| | 968 | Furniture..... | Levy Bros..... | 7 50 |
| | | | | \$ 1,000 33 |

By appropriation, Twenty-seventh Legislature..... \$ 1,000 00
Expended \$ 1,000 00

ELECTRIC LIGHT AND ICE PLANT ACCOUNT.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|----------------|-------------|---------------------------|------------------------------|-----------|
| June 30, 1901 | 3363 | Contract payment..... | M. L. Wallace..... | \$ 504 30 |
| July 15, 1901 | 3470 | Freight..... | H. & T. C. Ry. Co..... | 23 05 |
| | 3471 | Labor..... | Jeff Riddick et al..... | 16 60 |
| | 3525 | Payment on contract..... | Lewis & Weddington..... | 300 00 |
| | 3526 | Payment on contract..... | M. L. Wallace..... | 666 00 |
| | 3573 | Supplies..... | Cahill, Swift Mfg. Co..... | 58 12 |
| | 3574 | Freight..... | H. & T. C. Ry. Co..... | 9 16 |
| | 3575 | Freight..... | H. & T. C. Ry. Co..... | 33 70 |
| Aug. 10, 1901 | 3642 | Payment on contract..... | Lewis & Weddington..... | 325 20 |
| | 3643 | Payment on contract..... | M. L. Wallace..... | 1,200 00 |
| | 3672 | Material..... | Garth, Howell & Webb..... | 195 00 |
| | 3673 | Material..... | Dearborn Foundry Co..... | 22 09 |
| Aug. 26, 1901 | 3696 | Payment on contract..... | Lewis & Weddington..... | 125 00 |
| Aug. 30, 1901 | 3746 | Payment on contract..... | De La Vergne Refg. Co..... | 2,205 67 |
| | 3787 | Freight..... | H. & T. C. Ry. Co..... | 11 81 |
| | 3788 | Freight on machinery..... | H. & T. C. Ry. Co..... | 485 17 |
| | 3789 | Freight..... | H. & T. C. Ry. Co..... | 19 50 |
| | 3790 | Freight..... | H. & T. C. Ry. Co..... | 1 17 |
| | 3791 | Freight..... | H. & T. C. Ry. Co..... | 24 00 |
| | 3792 | Freight..... | H. & T. C. Ry. Co..... | 6 91 |
| | 3793 | Labor..... | W. J. Andrews..... | 30 00 |
| | 3794 | Labor..... | F. D. Bittle..... | 2 60 |
| | 3795 | Labor..... | Goosby et al..... | 8 85 |
| | 3796 | Labor..... | Wm. Andrews..... | 10 00 |
| Sept. 11, 1901 | 3882 | Payment on contract..... | M. L. Wallae..... | 500 00 |
| Aug. 30, 1901 | 3899 | Material..... | Peden & Co..... | 15 60 |
| | 3800 | Material..... | J. W. Lauderdale..... | 66 50 |
| | 3901 | Labor..... | Necco & Eisman..... | 25 00 |
| | 3902 | Labor..... | Necco & Eisman..... | 35 00 |
| | 3903 | Labor..... | Ramsey et al..... | 2 00 |
| | 3944 | Expenses..... | Lewis & Weddington..... | 100 00 |
| | 3945 | Expenses..... | M. L. Wallace..... | 500 00 |
| | 99 | Labor..... | Necco & Eisman..... | 423 19 |
| Oct. 30, 1901 | 118 | Machinery..... | Dearborn Foundry..... | 66 30 |
| | 119 | Material..... | Garth, Howell & Webb..... | 129 12 |
| | 241 | Payment on contract..... | Lewis & Weddington..... | 150 00 |
| | 242 | Supplies..... | Garth, Howell & Webb..... | 42 15 |
| | 243 | Supplies..... | Wilson, Jenkins Drug Co..... | 3 60 |
| | 244 | Payment on engine..... | American Engine Co..... | 760 75 |
| Nov. 11, 1901 | 380 | Freight..... | H. & T. C. Ry. Co..... | 56 80 |

Electric Light and Ice Plant Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|---------------------------|-------------------------------|--------------|
| Nov. 11, 1901 | 381 | Labor..... | W. J. Andrews..... | \$ 4 50 |
| | 382 | Material | Garth, Howell & Webb..... | 16 10 |
| | 419 | Payment on contract | M. L. Wallace..... | 1,934 70 |
| Nov. 15, 1901 | 421 | Boiler..... | De La Vergne Refg. Co..... | 2,900 00 |
| | 422 | Dynamo..... | Northern Elect'l Mfg. Co..... | 1,095 00 |
| | 502 | Labor..... | A. E. Withers | 39 12 |
| Nov. 30, 1901 | 609 | Material..... | J. T. Hanway..... | 5 00 |
| | 610 | Payment on boiler..... | De La Vergne Refg. Co..... | 130 10 |
| Dec. 20, 1901 | 796 | Freight..... | H. & T. C. Ry. Co..... | 352 69 |
| Dec. 30, 1901 | 920 | Payment on engine..... | American Engine Co..... | 760 75 |
| | 976 | Payment on contract | Lewis & Weddington..... | 372 80 |
| Feb. 18, 1902 | 1505 | Machinery..... | Northern Elect'l Mfg. Co..... | 259 33 |
| | | | | \$ 17,000 00 |

By appropriation, Twenty-seventh Legislature..... \$ 17,000 00
 Expended \$ 17,000 00

NEW BOILER ACCOUNT.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|------------------------|----------------------------|-------------|
| Oct. 30, 1901 | 117 | Payment on boiler..... | Babcock, Wilcox & Co | \$ 750 00 |
| Feb. 18, 1901 | 1506 | Payment on boiler..... | Babcock, Wilcox & Co | 741 88 |
| | 1625 | Boiler fixtures..... | F. W. Heitmann & Co..... | 8 15 |
| | | | | \$ 1,500 03 |

Appropriation, Twenty-seventh Legislature..... \$ 1,500 00

LIBRARY ACCOUNT.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|--------------------|---------------------------|-----------|
| Jan. 20, 1902 | 415 | Labor..... | H. Matthews..... | \$ 9 00 |
| | 1165 | Keys..... | Yale & Towns Mfg. Co..... | 3 65 |
| | 1166 | Subscription | T. Haswell..... | 3 75 |
| Feb. 4, 1902 | 1307 | Subscription | T. Haswell..... | 165 45 |
| Apr. 12, 1902 | 2143 | Express..... | W. F. Express Co..... | 60 |
| May 15, 1902 | 2529 | Freight..... | H. & T. C. Ry. Co..... | 9 67 |
| May 20, 1902 | 2615 | Furniture..... | F. Macey..... | 59 20 |
| May 30, 1902 | 2700 | Books..... | Baker & Taylor Co..... | 594 24 |
| June 10, 1902 | 2816 | Books..... | J. H. Connell..... | 9 42 |
| | 2817 | Freight..... | H. & T. C. Ry. Co..... | 21 28 |
| July 1, 1902 | 2944 | Tacks..... | A. & M. Book Store..... | 40 |
| | 3130 | Books..... | Baker & Taylor Co..... | 76 35 |
| July 30, 1902 | 3226 | Freight..... | H. & T. C. Ry. Co..... | 1 19 |
| Aug. 22, 1902 | 3371 | Expense..... | T. Haswell..... | 1 85 |
| Aug. 30, 1902 | 3562 | Books..... | Baker & Taylor Co..... | 34 00 |
| | 3572 | Labor..... | B. Youngblood..... | 8 00 |
| | | | | \$ 998 05 |

Library Account—continued.

By appropriation, Twenty-seventh Legislature (called session)..... \$ 1,000 00
 Expended \$ 998 05
 Lapsed 1 95

\$ 1,000 00 \$ 1,000 00

GRAVEL FOR ROAD AND SIDEWALKS.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|------------------------|-------------------------|-------------|
| June 10, 1902 | 2753 | Labor..... | L. Battle et al..... | \$ 75 80 |
| | 2754 | Labor..... | L. Battle et al..... | 53 30 |
| | 2755 | Labor..... | L. Battle et al..... | 72 20 |
| | 2756 | Labor..... | C. Adams et al..... | 53 40 |
| | 2757 | Labor..... | Jones et al..... | 26 85 |
| | 2758 | Labor..... | R. F. Smith et al..... | 36 00 |
| | 2759 | Labor..... | J. C. Boyett et al..... | 30 60 |
| | 2760 | Freight..... | I. & G. N. Ry. Co..... | 140 00 |
| | 2761 | Freight..... | I. & G. N. Ry. Co..... | 52 50 |
| | 2762 | Freight..... | I. & G. N. Ry. Co..... | 17 50 |
| | 2763 | Freight..... | I. & G. N. Ry. Co..... | 87 50 |
| | 2764 | Freight..... | I. & G. N. Ry. Co..... | 122 50 |
| | 2765 | Freight..... | I. & G. N. Ry. Co..... | 100 00 |
| July 1, 1902 | 2766 | Freight..... | I. & G. N. Ry. Co..... | 35 00 |
| | 3095 | Freight..... | I. & G. N. Ry. Co..... | 72 50 |
| | 3096 | Labor..... | L. Battle et al..... | 50 00 |
| | 3097 | Freight..... | I. & G. N. Ry. Co..... | 180 00 |
| | 3098 | Labor..... | C. Atkins et al..... | 117 55 |
| | 3126 | Labor and freight..... | A. M. Jones..... | 33 00 |
| | 3127 | Labor..... | C. Atkins et al..... | 63 85 |
| | 3128 | Labor..... | H. Atkins et al..... | 76 30 |
| | 3129 | Freight..... | I. & G. N. Ry. Co..... | 180 00 |
| July 30, 1902 | 3222 | Labor..... | C. Atkins et al..... | 116 30 |
| | 3223 | Labor..... | C. Atkins et al..... | 27 35 |
| | 3224 | Freight..... | I. & G. N. Ry. Co..... | 160 00 |
| | 3225 | Freight..... | I. & G. N. Ry. Co..... | 20 00 |
| | | | | \$ 2,000 00 |

By appropriation, Twenty-seventh Legislature \$ 2,000 00

ERECTION OF DWELLINGS ACCOUNT.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|------------------------|---------------------------|-------------|
| June 30, 1901 | 3362 | Contract payment..... | Lewis & Weddington..... | \$ 1,000 00 |
| July 15, 1901 | 3482 | Freight..... | H. & T. C. Ry. Co..... | 1 40 |
| | 3483 | Freight..... | H. & T. C. Ry. Co..... | 2 00 |
| | 3524 | Contract payment..... | Lewis & Weddington..... | 1,100 00 |
| July 26, 1901 | 3562 | Material..... | Waco Elect. Sup. Co..... | 39 10 |
| | 3563 | Material..... | N. Randolph & Sons..... | 43 21 |
| | 3564 | Material..... | Harrison Bros. & Co..... | 33 75 |
| | 3565 | Material..... | Burt Norwood..... | 44 32 |
| | 3566 | Freight..... | H. & T. C. Ry. Co..... | 1 65 |
| | 3612 | Contract payment..... | Lewis & Weddington..... | 250 00 |
| Aug. 10, 1901 | 3641 | Contract payment..... | Lewis & Weddington..... | 125 00 |
| | 3644 | Labor..... | A. E. Withers..... | 50 00 |
| | 3669 | Material..... | N. Randolph & Sons..... | 60 05 |
| | 3670 | Material..... | Peden & Co..... | 10 70 |
| | 3671 | Material..... | C. L. & Theo. Bering..... | 67 00 |
| Aug. 26, 1901 | 3695 | Painting contract..... | A. E. Withers..... | 50 00 |
| Aug. 30, 1901 | 3783 | Freight..... | H. & T. C. Ry. Co..... | 1 50 |
| | 3784 | Freight..... | H. & T. C. Ry. Co..... | 1 04 |
| | 3785 | Freight..... | H. & T. C. Ry. Co..... | 1 20 |
| | 3786 | Freight..... | H. & T. C. Ry. Co..... | 1 39 |
| | 3848 | Material..... | J. A. Myers..... | 44 60 |
| | 3849 | Material..... | Stanley Mfg. Co..... | 14 40 |
| | 3850 | Material..... | Wilson, J. Drug Co..... | 4 25 |
| | 3851 | Material..... | Harrison Bros. & Co..... | 23 25 |
| | 3852 | Material..... | T. Haswell..... | 4 80 |
| | 3853 | Material..... | R. F. Smith..... | 7 00 |
| | 3886 | Labor..... | A. E. Withers..... | 18 39 |
| | | | | <hr/> |
| | | | | \$ 3,000 00 |

By appropriation, Twenty-seventh Legislature..... \$ 3,000 00
 Expended..... \$ 3,000 00

TOOLS AND MACHINERY.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|--------------|-------------|--------------------|-------------------------------|-----------|
| May 30, 1902 | 2667 | Condenser..... | Wheeler Cond. & Mfg. Co..... | \$ 90 00 |
| | 2668 | Drill grinder..... | Wilmurth & Monnan Co..... | 35 83 |
| | 2669 | Drill, etc..... | Cleveland Twist Drill Co..... | 23 37 |
| | 2670 | Vises..... | W. O. Toles Co..... | 209 11 |
| July 1, 1902 | 2895 | Tools..... | C. A. Strillinger Co..... | 3 32 |
| | 2896 | Machinery..... | Manning, Maxwell & M..... | 74 80 |
| | 2897 | Machinery..... | Brown & Sharp Mfg. Co..... | 26 03 |
| | 2898 | Tools..... | F. W. Heitmann & Co..... | 5 65 |
| | | | | <hr/> |
| | | | | \$ 468 11 |

By appropriation, Twenty-seventh Legislature (called session)..... \$ 500 00
 Expended..... \$ 468 11
 Balance..... 31 89

\$ 500 00 \$ 500 00

DORMITORY ACCOUNT.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-----------------------|---------------------|-----------|
| Oct. 15, 1900 | 738 | Contract payment..... | J. A. Myers..... | \$ 152 75 |
| Nov. 10, 1900 | 1070 | Labor..... | J. G. Harrison..... | 14 66 |
| | 1071 | Labor..... | J. A. Myers..... | 5 50 |
| | 1072 | Contract payment..... | D. Mahoney..... | 190 38 |
| | | | | \$ 363 29 |

By balance last report..... \$ 363 29
 Expended..... \$ 363 29

STUDENTS' LABOR FUND ACCOUNT.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-------------------------------|------------------------|---------|
| Oct. 20, 1900 | 741 | Drawing department..... | Rawlins et al..... | \$ 4 75 |
| | 742 | Band..... | Holcomb et al..... | 12 00 |
| | 743 | Natatorium..... | H. F. Matthews..... | 6 65 |
| | 744 | Book store..... | M. F. Thomas..... | 3 50 |
| | 745 | Watchmen..... | Garbade et al..... | 13 40 |
| | 746 | Agricultural department..... | Carpenter et al..... | 22 87 |
| | 747 | Farm department..... | Moser et al..... | 11 45 |
| | 748 | Horticultural department..... | McCall et al..... | 48 10 |
| | 749 | C. E. department..... | Adkins et al..... | 23 10 |
| | 750 | Physics department..... | Abrahams et al..... | 3 65 |
| | 751 | Military department..... | Fountain et al..... | 10 75 |
| | 752 | Veterinary department..... | Youngblood et al..... | 4 47 |
| | 753 | Steam plant..... | Akers et al..... | 101 80 |
| | 754 | Chemical department..... | Matthews et al..... | 11 15 |
| Nov. 10, 1900 | 953 | Band..... | Holcomb et al..... | 50 00 |
| | 954 | Natatorium..... | H. F. Matthews..... | 10 00 |
| | 955 | Watchmen..... | Garbade et al..... | 40 00 |
| | 956 | Book store..... | M. F. Thomas..... | 5 00 |
| | 957 | Contingent fund..... | Benjamin..... | 4 95 |
| | 958 | Contingent fund..... | Gary..... | 5 35 |
| | 959 | Contingent fund..... | Swift et al..... | 12 65 |
| | 960 | Military department..... | Batte et al..... | 2 50 |
| | 961 | Military department..... | Fountain et al..... | 24 35 |
| | 962 | Military department..... | T. H. Olds et al..... | 8 50 |
| | 963 | Library..... | M. F. Thomas..... | 2 20 |
| | 964 | Library..... | M. F. Thomas..... | 5 55 |
| | 965 | Farm department..... | Armstrong et al..... | 5 40 |
| | 966 | Farm department..... | Sattler et al..... | 63 10 |
| | 967 | Horticultural department..... | McCall et al..... | 44 15 |
| | 968 | Drawing department..... | Fountain et al..... | 3 50 |
| | 969 | Chemical department..... | W. Martin et al..... | 5 50 |
| | 970 | Agricultural department..... | Youngblood et al..... | 34 75 |
| | 971 | Steam plant..... | Armstrong et al..... | 128 75 |
| | 972 | M. E. department..... | Bailey et al..... | 9 70 |
| | 973 | C. E. department..... | Bryant et al..... | 14 00 |
| | 974 | Physics department..... | Abrahams et al..... | 11 10 |
| Dec. 10, 1900 | 1353 | Book store..... | M. F. Thomas..... | 5 00 |
| | 1354 | Watchmen..... | Garbade et al..... | 40 00 |
| | 1355 | Band..... | Holcomb et al..... | 63 00 |
| | 1356 | Steam plant..... | Neff et al..... | 159 40 |
| | 1357 | Department of botany..... | F. Moore et al..... | 1 35 |
| | 1358 | Chemical department..... | Chesser et al..... | 4 93 |
| | 1359 | Chemical department..... | Eberspacher et al..... | 8 00 |
| | 1360 | Chemical department..... | Eberspacher et al..... | 11 00 |
| | 1361 | Library..... | M. F. Thomas..... | 5 55 |
| | 1362 | Military department..... | Fountain et al..... | 15 00 |
| | 1363 | Military department..... | Williamson et al..... | 2 80 |
| | 1364 | Agricultural department..... | Youngblood et al..... | 50 75 |
| | 1365 | Drawing department..... | Rawlins et al..... | 7 55 |
| | 1366 | C. E. department..... | Theis et al..... | 3 05 |
| | 1367 | M. E. department..... | Breihan et al..... | 5 90 |
| | 1368 | Farm department..... | Youngblood et al..... | 79 30 |
| | 1369 | Veterinary department..... | Lockett et al..... | 20 34 |

Students' Labor Fund Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-------------------------------|---------------------------|---------|
| Dec. 10, 1900 | 1370 | Physics department..... | Abrahams et al..... | \$ 7 60 |
| | 1371 | Horticultural department..... | Pape et al..... | 41 35 |
| Jan. 26, 1901 | 1731 | Watchmen | Garbade et al..... | 32.60 |
| | 1732 | Watchmen | Clarke & Moser..... | 6 70 |
| | 1733 | Watchmen | C. S. Clark et al..... | 6 70 |
| | 1734 | Book store..... | M. F. Thomas..... | 3 40 |
| | 1735 | Band..... | Holcomb et al..... | 42 40 |
| | 1736 | Horticultural department..... | Pape et al..... | 14 85 |
| | 1737 | Farm department..... | Mallory et al..... | 38 90 |
| | 1738 | Farm department..... | Sattler et al..... | 59 77 |
| | 1739 | Military department..... | Fountain et al..... | 10 00 |
| | 1740 | C. E. department..... | W. E. Thies et al..... | 2 35 |
| | 1741 | Steam plant..... | Akers et al..... | 117 00 |
| | 1742 | Veterinary department..... | Hall et al..... | 4 95 |
| | 1743 | Chemical department..... | Mobberly et al..... | 4 25 |
| | 1744 | Chemical department..... | Eberspacher et al..... | 6 65 |
| | 1745 | Drawing department..... | Rawlins et al..... | 2 35 |
| | 1746 | M. E. department..... | Breihan et al..... | 4 45 |
| | 1747 | Agricultural department..... | M. W. Burch et al..... | 3 50 |
| | 1748 | Agricultural department..... | J. W. Hayfort et al..... | 8 62 |
| | 1749 | Agricultural department..... | J. W. Hayfort et al..... | 25 30 |
| | 1750 | Natatorium..... | H. F. Matthews..... | 10 00 |
| | 1751 | Natatorium..... | H. F. Matthews..... | 10 00 |
| Feb. 18, 1901 | 2029 | Band..... | Holcomb et al..... | 64 00 |
| | 2030 | Book store..... | M. F. Thomas..... | 5 00 |
| | 2031 | Natatorium..... | H. F. Matthews..... | 8 65 |
| | 2032 | Watchmen | Garbade et al..... | 40 00 |
| | 2033 | Contingent fund..... | E. J. & M. J. Carson..... | 37 50 |
| | 2034 | Contingent fund..... | O. A. Jones..... | 15 00 |
| | 2035 | M. E. department..... | Eberspacher et al..... | 7 65 |
| | 2036 | Military department..... | Fountain et al..... | 13 50 |
| | 2037 | Military department..... | Fountain et al..... | 20 50 |
| | 2038 | Military department..... | Alexander et al..... | 8 35 |
| | 2039 | Library..... | M. F. Thomas..... | 14 00 |
| | 2040 | Drawing department..... | Fountain et al..... | 8 75 |
| | 2041 | Farm department..... | Cook et al..... | 91 84 |
| | 2042 | Horticultural department..... | Aguayo et al..... | 53 10 |
| | 2043 | C. E. department..... | W. E. Thies et al..... | 4 60 |
| | 2044 | Chemical department..... | Eberspacher et al..... | 2 11 |
| | 2045 | Veterinary department..... | T. M. Smith et al..... | 3 15 |
| | 2046 | Botanical department..... | Cook et al..... | 2 20 |
| | 2047 | Physics department..... | Biering et al..... | 5 85 |
| | 2048 | Agricultural department..... | McKee et al..... | 146 91 |
| | 2049 | Steam plant..... | Armstrong et al..... | 151 80 |
| Feb. 28, 1901 | 2250 | Book store..... | M. F. Thomas..... | 5 00 |
| | 2251 | Contingent..... | I. Keer..... | 90 |
| | 2252 | Band..... | Holcomb et al..... | 64 75 |
| | 2253 | Watchmen | Garbade et al..... | 40 00 |
| | 2254 | Agricultural department..... | McKay et al..... | 71 13 |
| | 2255 | M. E. department..... | Cook et al..... | 10 00 |
| | 2256 | Chemical department..... | Eberspacher et al..... | 18 60 |
| | 2257 | C. E. department..... | W. E. Thies et al..... | 4 10 |
| | 2258 | Military department..... | Fountain et al..... | 13 00 |
| | 2259 | Drawing department..... | Foy et al..... | 4 70 |
| | 2260 | Library..... | Gleason et al..... | 18 20 |
| | 2261 | Steam plant..... | Akers et al..... | 145 20 |
| | 2262 | Veterinary department..... | Smith et al..... | 6 50 |
| | 2263 | Horticultural department..... | Benjamin et al..... | 67 74 |
| | 2264 | Physics department..... | Dupree et al..... | 10 15 |
| | 2265 | Farm department..... | Jacot et al..... | 79 74 |
| May 10, 1901 | 2800 | Agricultural department..... | Carpenter et al..... | 50 41 |
| | 2801 | Agricultural department..... | Youngblood et al..... | 71 39 |
| | 2802 | Steam plant..... | Akers et al..... | 120 95 |
| | 2803 | Steam plant..... | Akers et al..... | 130 00 |
| | 2804 | M. E. department..... | Cook et al..... | 7 70 |
| | 2805 | M. E. department..... | Cook et al..... | 10 25 |
| | 2806 | Veterinary department..... | T. M. Smith..... | 3 50 |
| | 2807 | Veterinary department..... | T. M. Smith..... | 5 50 |
| | 2808 | Farm department..... | McCall et al..... | 54 35 |
| | 2809 | Farm department..... | Armstrong et al..... | 56 6 |
| | 2810 | Drawing department..... | E. M. Ross et al..... | 11 60 |
| | 2811 | Drawing department..... | Foy et al..... | 21 00 |
| | 2812 | Horticultural department..... | Algelt et al..... | 29 20 |
| | 2813 | Horticultural department..... | Akers et al..... | 48 00 |
| | 2814 | Military department..... | Fountain et al..... | 24 50 |
| | 2815 | Military department..... | Jacot et al..... | 2 00 |
| | 2816 | Military department..... | Fountain et al..... | 16 00 |
| | 2817 | Library..... | M. F. Thomas..... | 5 50 |

Students' Labor Fund Account--continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-------------------------------|---------------------------|---------|
| May 10, 1901 | 2818 | Library..... | M. F. Thomas..... | 5 55 |
| | 2819 | C. E. department..... | W. E. Thies et al..... | 11 10 |
| | 2820 | Band..... | Holcomb et al..... | 62 00 |
| | 2821 | Band..... | Holcomb et al..... | 59 20 |
| | 2822 | Watchmen..... | Garbade et al..... | 40 00 |
| | 2823 | Watchmen..... | Garbade et al..... | 40 00 |
| | 2824 | Book store..... | M. F. Thomas..... | 5 00 |
| | 2825 | Book store..... | M. F. Thomas..... | 5 00 |
| | 2826 | Contingent..... | E. E. Worthing et al..... | 1 75 |
| | 2827 | Contingent..... | O. J. McKnight..... | 1 40 |
| | 2828 | Chemical department..... | Eberspacher et al..... | 25 00 |
| | 2829 | Physics department..... | J. M. Elder..... | 1 75 |
| | 3095 | Book store..... | M. F. Thomas..... | 5 00 |
| | 3096 | Book store..... | M. F. Thomas..... | 2 50 |
| June 10, 1901 | 3097 | Contingent..... | E. E. Worthing et al..... | 1 65 |
| | 3098 | Contingent..... | O. J. McKnight..... | 2 70 |
| | 3099 | Watchmen..... | Garbade et al..... | 40 00 |
| | 3100 | Watchmen..... | Garbade et al..... | 13 40 |
| | 3101 | Band..... | Holcomb et al..... | 64 00 |
| | 3102 | Band..... | Harrison et al..... | 46 00 |
| | 3103 | Library..... | M. F. Thomas..... | 5 55 |
| | 3104 | Library..... | M. F. Thomas..... | 3 35 |
| | 3105 | Steam plant..... | Akers et al..... | 152 65 |
| | 3106 | Steam plant..... | Blanchette et al..... | 100 85 |
| | 3107 | Agricultural department..... | Moser et al..... | 64 42 |
| | 3108 | Agricultural department..... | Youngblood et al..... | 26 40 |
| | 3109 | Farm department..... | Armstrong et al..... | 81 30 |
| | 3110 | Farm department..... | Armstrong et al..... | 38 40 |
| | 3111 | Chemical department..... | Eberspacher et al..... | 15 05 |
| | 3112 | Chemical department..... | Martin et al..... | 5 00 |
| | 3113 | Horticultural department..... | Cruse et al..... | 44 96 |
| | 3114 | Horticultural department..... | Dealy et al..... | 35 76 |
| | 3115 | C. E. department..... | Thies et al..... | 6 15 |
| | 3116 | C. E. department..... | Harral et al..... | 7 70 |
| | 3117 | Drawing department..... | Atlee et al..... | 10 00 |
| | 3118 | Drawing department..... | Foy et al..... | 6 55 |
| | 3119 | M. E. department..... | Cook et al..... | 14 25 |
| | 3120 | M. E. department..... | Chinn et al..... | 16 90 |
| | 3121 | Veterinary department..... | Smith et al..... | 7 20 |
| | 3122 | Military department..... | Fountain et al..... | 14 00 |
| | 3123 | Military department..... | Fountain et al..... | 8 00 |
| | 3124 | Physics department..... | Briggs et al..... | 14 95 |
| | 3125 | Physics department..... | Floyd et al..... | 50 |
| | 3126 | Contingent..... | Dealy et al..... | 87 |
| | 3127 | Natorium..... | M. E. Akers et al..... | 3 35 |
| | 3464 | Cannery..... | Biering et al..... | 68 20 |
| | 3465 | Cannery..... | Biering et al..... | 56 25 |
| | 3466 | Cannery..... | Biering et al..... | 38 20 |
| | 3467 | Drawing department..... | E. M. Ross..... | 3 00 |
| | 3468 | Agricultural department..... | Holzman et al..... | 30 00 |
| | 3469 | Campus..... | H. Jacot et al..... | 18 75 |
| Nov. 15, 1901 | 543 | Steam plant..... | Adkisson et al..... | 176 75 |
| | 544 | Steam plant..... | Adkisson et al..... | 199 55 |
| | 545 | Horticultural department..... | Blount et al..... | 36 81 |
| | 546 | Chemical department..... | Jacot et al..... | 9 30 |
| | 547 | Chemical department..... | Matthews et al..... | 21 62 |
| | 548 | Horticultural department..... | Thweatt et al..... | 3 70 |
| | 549 | Drawing department..... | Odom et al..... | 4 90 |
| | 550 | Drawing department..... | Odom et al..... | 12 25 |
| | 551 | Library..... | Batte et al..... | 7 05 |
| | 552 | Physics department..... | Ernst et al..... | 6 05 |
| | 553 | M. E. department..... | Crook et al..... | 13 45 |
| | 554 | M. E. department..... | Crook et al..... | 19 00 |
| | 555 | C. E. department..... | Pape et al..... | 5 60 |
| | 556 | Agricultural department..... | Miner et al..... | 76 47 |
| | 557 | Military department..... | Barham et al..... | 43 25 |
| | 558 | Farm..... | Graves et al..... | 75 13 |
| | 559 | Farm..... | Drinkard et al..... | 4 10 |
| | 560 | Office work..... | O. J. McKnight..... | 3 75 |
| | 561 | Office work..... | W. A. Mallory..... | 1 05 |
| | 562 | Office work..... | L. P. Lawley..... | 4 70 |
| Jan. 10, 1902 | 563 | Watchmen..... | Foy et al..... | 26 60 |
| | 564 | Watchmen..... | Foy et al..... | 40 00 |
| | 565 | Band..... | Harrison et al..... | 39 65 |
| | 566 | Band..... | Harrison et al..... | 58 00 |
| | 987 | Books..... | J. Harrison..... | 16 70 |
| | 988 | Contingent account..... | L. P. Lawley..... | 8 10 |
| | 989 | Contingent account..... | W. A. Mallory..... | 2 55 |

Students' Labor Fund Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-------------------------------|------------------------|---------|
| Jan. 10, 1902 | 990 | Contingent account..... | O. J. McKnight | \$ 2 25 |
| | 991 | Watchmen | Foy et al..... | 40 00 |
| | 992 | Watchmen | Foy et al..... | 26 60 |
| | 993 | Watchmen | Harrington et al..... | 13 40 |
| | 994 | Library..... | Youngblood et al..... | 5 55 |
| | 995 | Library..... | Youngblood et al..... | 5 55 |
| | 996 | Military department..... | Barham et al..... | 10 45 |
| | 997 | Military department..... | Barham et al..... | 30 25 |
| | 998 | Chemical department..... | Walden et al..... | 12 62 |
| | 999 | Chemical department..... | Risien et al..... | 18 40 |
| | 1000 | Agricultural department..... | Blake et al..... | 45 24 |
| | 1001 | Agricultural department..... | Youngblood et al..... | 12 12 |
| | 1002 | Agricultural department..... | Blount et al..... | 67 84 |
| | 1003 | Campus..... | Browning et al..... | 58 65 |
| | 1004 | Campus..... | Andrews et al..... | 51 60 |
| | 1005 | Veterinary department..... | Williamson..... | 1 30 |
| | 1006 | Farm..... | Youngblood et al..... | 40 45 |
| | 1007 | Farm..... | Carter et al..... | 75 50 |
| | 1008 | Horticultural department..... | Andrews et al..... | 21 15 |
| | 1009 | Physics department..... | Ernst et al..... | 6 05 |
| | 1010 | Physics department..... | Pape et al..... | 3 30 |
| | 1011 | C. E. department..... | Pape et al..... | 13 15 |
| | 1012 | C. E. department..... | Pape et al..... | 4 20 |
| | 1013 | Steam plant..... | Adkisson et al..... | 175 65 |
| | 1014 | Steam plant..... | Adkisson et al..... | 104 45 |
| | 1015 | Steam plant..... | Rees et al..... | 14 05 |
| | 1016 | Steam plant..... | Neff et al..... | 2 30 |
| | 1017 | M. E. department..... | Crook et al..... | 20 40 |
| | 1018 | Drawing department..... | Odom et al..... | 14 35 |
| | 1019 | Band..... | Harrison et al..... | 61 00 |
| | 1020 | Band..... | Harrison et al..... | 34 80 |
| Mar. 22, 1902 | 1803 | Farm..... | Boyce et al..... | 44 25 |
| | 1804 | Watchmen | Foy et al..... | 40 00 |
| | 1805 | Contingent account..... | Beeman et al..... | 2 70 |
| | 1806 | Band..... | Harrison et al..... | 43 00 |
| | 1807 | Horticultural department..... | Brinkman et al..... | 13 60 |
| | 1808 | Campus..... | Bellinger et al..... | 54 95 |
| | 1809 | M. E. department..... | Crook et al..... | 17 45 |
| | 1810 | Drawing department..... | Odom et al..... | 16 50 |
| | 1811 | Physics department..... | Pape et al..... | 8 15 |
| | 1812 | Chemical department..... | Walden et al..... | 17 63 |
| | 1813 | Chemical department..... | Beeman et al..... | 1 25 |
| | 1814 | C. E. department..... | Burton et al..... | 4 80 |
| | 1815 | Library..... | Youngblood et al..... | 5 55 |
| | 1816 | Agricultural department..... | Kerr et al..... | 74 26 |
| | 1817 | Agricultural department..... | Altgelt et al..... | 46 79 |
| | 1818 | Steam plant..... | Adkisson et al..... | 206 20 |
| | 1819 | Steam plant..... | Strieber et al..... | 6 60 |
| | 1820 | Military department..... | Barham et al..... | 10 75 |
| | 1821 | Military department..... | J. McMillan et al..... | 4 95 |
| | 1822 | Military department..... | P. L. Sanders..... | 3 10 |
| May 15, 1902 | 2569 | Band..... | Harrison et al..... | 45 00 |
| | 2570 | Band..... | Harrison et al..... | 48 00 |
| | 2571 | Band..... | Harrison et al..... | 45 00 |
| | 2572 | Book store..... | Harrison et al..... | 8 00 |
| | 2573 | Office work..... | L. P. Lawley..... | 7 50 |
| | 2574 | Office work..... | Lawley et al..... | 5 75 |
| | 2575 | Contingent account..... | Buehring et al..... | 6 70 |
| | 2576 | Contingent account..... | Kyle et al..... | 11 45 |
| | 2577 | Natorium..... | C. F. Hauck..... | 15 00 |
| | 2578 | M. E. department..... | Benjamin et al..... | 18 25 |
| | 2579 | M. E. department..... | Clonts et al..... | 9 80 |
| | 2580 | M. E. department..... | Clonts et al..... | 11 05 |
| | 2581 | Steam plant..... | Adkisson et al..... | 162 00 |
| | 2582 | Steam plant..... | Aguayo et al..... | 141 40 |
| | 2583 | Steam plant..... | Adkisson et al..... | 167 05 |
| | 2584 | Farm..... | Sattler et al..... | 50 45 |
| | 2585 | Farm..... | Hanson et al..... | 50 40 |
| | 2586 | Farm..... | Boyce et al..... | 71 03 |
| | 2587 | Horticultural department..... | Rogers et al..... | 19 08 |
| | 2588 | Horticultural department..... | Becker et al..... | 28 50 |
| | 2589 | Horticultural department..... | Benjamin et al..... | 31 56 |
| | 2590 | Agricultural department..... | Booth et al..... | 24 90 |
| | 2591 | Agricultural department..... | Youngblood et al..... | 6 12 |
| | 2592 | Agricultural department..... | Crook et al..... | 7 75 |
| | 2593 | Agricultural department..... | Booth et al..... | 45 45 |
| | 2594 | Agricultural department..... | Booth et al..... | 47 65 |
| | 2595 | Campus..... | Ballard et al..... | 53 30 |

Student's Labor Fund Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-------------------------------|--------------------------|-------------|
| May, 15, 1902 | 2596 | Campus..... | Cruse et al..... | \$ 24 90 |
| | 2597 | Campus..... | Bellinger et al..... | 68 35 |
| | 2598 | Physics department..... | Pendleton et al..... | 5 30 |
| | 2599 | Physics department..... | Ernst et al..... | 4 15 |
| | 2600 | Physics department..... | Pape et al..... | 8 50 |
| | 2601 | C. E. department..... | J. Carter et al..... | 13 40 |
| | 2602 | C. E. department..... | Ernst et al..... | 7 95 |
| | 2603 | C. E. department..... | Pape et al..... | 10 30 |
| | 2604 | Drawing department..... | Odom et al..... | 9 50 |
| | 2605 | Drawing department..... | Odom et al..... | 8 70 |
| | 2606 | Library..... | Youngblood et al..... | 5 55 |
| | 2607 | Library..... | Youngblood et al..... | 5 55 |
| | 2608 | Library..... | Youngblood et al..... | 5 55 |
| | 2609 | Chemical department..... | Ballard et al..... | 17 25 |
| | 2610 | Chemical department..... | Walden et al..... | 17 91 |
| | 2611 | Chemical department..... | Risien et al..... | 22 74 |
| | 2612 | Entomology department..... | Ballard et al..... | 20 90 |
| | 2613 | Entomology department..... | Ballard et al..... | 19 86 |
| June 10, 1902 | 2855 | Steam plant..... | Carter et al..... | 149 25 |
| | 2856 | Steam plant..... | Cook et al..... | 49 85 |
| | 2857 | Drawing department..... | Odom et al..... | 15 65 |
| | 2858 | Drawing department..... | Odom et al..... | 3 55 |
| | 2859 | Band..... | Harrison et al..... | 38 00 |
| | 2860 | Band..... | Harrison et al..... | 63 00 |
| | 2861 | Natorium..... | Hauck et al..... | 2 00 |
| | 2862 | Contingent account..... | Korff et al..... | 1 10 |
| | 2863 | Contingent account..... | Duncan et al..... | 2 15 |
| | 2864 | Contingent account..... | Duncan et al..... | 2 25 |
| | 2865 | Book store..... | J. Harrison..... | 14 00 |
| | 2866 | Military department..... | Robertson et al..... | 7 00 |
| | 2867 | Military department..... | P. L. Sanders et al..... | 1 90 |
| | 2868 | Farm..... | Graves et al..... | 14 55 |
| | 2869 | Farm..... | Sattler et al..... | 43 45 |
| | 2870 | Agricultural department..... | Worthing et al..... | 44 44 |
| | 2871 | Agricultural department..... | Evans et al..... | 63 23 |
| | 2872 | Chemical department..... | Jordan et al..... | 8 80 |
| | 2873 | Chemical department..... | Risien et al..... | 19 30 |
| | 2874 | Campus..... | Buehring et al..... | 30 40 |
| | 2875 | Campus..... | Hall et al..... | 95 |
| | 2876 | C. E. department..... | Durst et al..... | 7 40 |
| | 2877 | C. E. department..... | Carter et al..... | 17 45 |
| | 2878 | M. E. department..... | Benjamin et al..... | 22 65 |
| | 2879 | Library..... | Olds et al..... | 12 65 |
| | 2880 | Horticultural department..... | Moser et al..... | 7 68 |
| | 2881 | Physics department..... | Pape et al..... | 8 60 |
| | 2882 | Entomology department..... | Booth et al..... | 12 40 |
| July 30, 1902 | 3228 | Campus..... | E. L. Myers..... | 14 75 |
| | 3229 | Campus..... | Durst et al..... | 30 65 |
| | 3230 | Contingent..... | D. Graves..... | 2 35 |
| | 3231 | Contingent account..... | Matthews et al..... | 2 00 |
| | 3232 | Chemical department..... | Youngblood et al..... | 3 15 |
| | 3233 | Farm..... | Youngblood et al..... | 9 40 |
| | 3234 | Entomology department..... | Booth et al..... | 29 45 |
| Aug. 22, 1902 | 3412 | Repairing..... | D. Graves et al..... | 56 50 |
| | 3413 | Repairing..... | Sheckles et al..... | 3 75 |
| | 3414 | Chemical department..... | Youngblood et al..... | 1 90 |
| | 3415 | Campus..... | Durst..... | 13 25 |
| | 3416 | Campus..... | Durst et al..... | 19 60 |
| Aug. 30, 1902 | 3573 | Labor..... | Graves et al..... | 75 65 |
| | 3574 | Labor..... | Neff et al..... | 52 65 |
| | 3586 | Repairs..... | B. C. Durst..... | 7 60 |
| | | | | \$ 9,905 78 |

| | |
|--|-------------|
| By balance last report..... | \$ 2,979 81 |
| appropriation, Twenty-seventh Legislature..... | 2,000 00 |
| appropriation, Twenty-seventh Legislature (called session).... | 5,000 00 |
| Expended..... | \$ 9,898 18 |
| Balance..... | 81 63 |

| | |
|-------------|-------------|
| \$ 9,379 81 | \$ 9,979 81 |
|-------------|-------------|

EXPERT ENTOMOLOGIST ACCOUNT.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|----------------|-------------|----------------------|-------------------------|-----------|
| Sept. 4, 1900 | 298 | Expenses..... | F. W. Mally | \$ 203 66 |
| | 333 | Labor..... | W. J. Walden..... | 32 00 |
| | 334 | Expenses..... | J. C. Bowman..... | 5 00 |
| | 351 | Expenses..... | F. W. Mally..... | 40 47 |
| Sept. 30, 1900 | 460 | Salary..... | F. W. Mally..... | 125 00 |
| Oct. 5, 1900 | 492 | Expenses..... | W. C. Boyett..... | 21 20 |
| | 493 | Expenses..... | F. W. Mally..... | 41 10 |
| | 494 | Expenses..... | Buhardt Mfg. Co..... | 4 60 |
| | 495 | Express..... | W. F. Express Co..... | 70 |
| Oct. 30, 1900 | 882 | Salary..... | F. W. Mally..... | 125 00 |
| Nov. 30, 1900 | 1267 | Salary..... | F. W. Mally..... | 125 00 |
| Dec. 25, 1900 | 1449 | Expense account..... | F. W. Mally..... | 270 55 |
| | 1450 | Expenses..... | Roos Bros..... | 30 05 |
| Dec. 31, 1900 | 1554 | Salary..... | F. W. Mally..... | 125 00 |
| Jan. 15, 1901 | 1624 | Expenses..... | F. W. Mally..... | 95 30 |
| | 1663 | Expenses..... | Miss E. Hutson..... | 9 50 |
| Jan. 31, 1901 | 1804 | Salary..... | F. W. Mally..... | 125 00 |
| Feb. 5, 1901 | 1831 | Expenses..... | F. W. Mally..... | 100 00 |
| Feb. 28, 1901 | 2104 | Salary..... | F. W. Mally..... | 125 00 |
| | 2177 | Expenses..... | F. W. Mally..... | 209 15 |
| Mar. 30, 1901 | 2424 | Expenses..... | F. W. Mally..... | 127 14 |
| | 2425 | Expenses..... | F. W. Mally..... | 29 28 |
| Apr. 30, 1901 | 2674 | Salary..... | F. W. Mally..... | 125 00 |
| | 2675 | Salary..... | F. W. Mally..... | 125 00 |
| May 10, 1901 | 2709 | Expenses..... | The Deering Co..... | 7 56 |
| | 2710 | Expenses..... | Jeff Welborn..... | 140 80 |
| | 2711 | Express..... | W. D. Foster..... | 3 70 |
| | 2712 | Expenses..... | W. D. F. Lewis..... | 3 00 |
| | 2713 | Expenses..... | Bomker Chemical Co..... | 8 55 |
| | 2714 | Expenses..... | Bryan Eagle..... | 6 60 |
| | 2715 | Expenses..... | Miss A. Sinbarido..... | 4 00 |
| | 2716 | Expenses..... | F. W. Mally..... | 181 03 |
| | 2717 | Expenses..... | F. W. Mally..... | 146 10 |
| May 30, 1901 | 3027 | Salary..... | F. W. Mally..... | 125 00 |
| June 30, 1901 | 3336 | Expenses..... | Roberts, S. & T..... | 8 25 |
| | 3337 | Expenses..... | Murphy D. G., & Co..... | 6 60 |
| | 3338 | Expenses..... | D. M. Farmer..... | 1 50 |
| | 3339 | Expenses..... | Wm. Stahl..... | 10 15 |
| | 3340 | Expenses..... | Binkley Hotel..... | 46 30 |
| | 3365 | Salary..... | F. W. Mally..... | 125 00 |
| July 15, 1901 | 3395 | Express..... | W. F. Express Co..... | 12 12 |
| | 3396 | Expenses..... | L. Z. Sarzoran..... | 30 50 |
| | 3397 | Expenses..... | H. H. Savage..... | 25 70 |
| July 26, 1901 | 3541 | Expenses..... | Sherman Iron Works..... | 101 70 |
| | 3542 | Express..... | W. F. Express Co..... | 18 70 |
| | 3543 | Telegrams..... | W. U. Telegraph Co..... | 80 |
| | 3544 | Freight..... | H. & T. C. Ry. Co..... | 14 90 |
| | 3545 | Printing..... | Bryan Eagle..... | 1 25 |
| | 3546 | Expenses..... | W. R. Kimball..... | 19 00 |
| July 30, 1901 | 3627 | Salary..... | F. W. Mally..... | 125 00 |
| Aug. 16, 1901 | 3660 | Postage..... | W. C. Boyett..... | 6 65 |
| Aug. 26, 1901 | 3712 | Salary..... | F. W. Mally..... | 125 00 |
| Aug. 30, 1901 | 3753 | Expenses..... | F. W. Mally..... | 365 05 |
| | 3872 | Express..... | W. F. Express Co..... | 4 00 |
| | 4006 | Salary..... | F. W. Mally..... | 125 00 |
| | 4019 | Expenses..... | F. W. Mally..... | 65 10 |
| | 4020 | Expenses..... | F. W. Mally..... | 10 40 |
| Oct. 30, 1901 | 295 | Salary..... | F. W. Mally..... | 125 00 |
| | 296 | Expenses..... | F. W. Mally..... | 96 29 |
| Nov. 30, 1901 | 674 | Salary..... | F. W. Mally..... | 125 00 |
| Dec. 30, 1901 | 854 | Salary..... | F. W. Mally..... | 125 00 |
| Jan. 3, 1902 | 983 | Expenses..... | F. W. Mally..... | 86 15 |
| | 984 | Expenses..... | F. W. Mally..... | 109 95 |
| Jan. 30, 1902 | 1263 | Salary..... | F. W. Mally..... | 125 00 |
| Feb. 28, 1902 | 1582 | Salary..... | F. W. Mally..... | 125 00 |
| Mar. 22, 1902 | 1924 | Salary..... | F. W. Mally..... | 125 00 |
| Mar. 30, 1902 | 1937 | Salary..... | W. Newell..... | 85 33 |
| | 1938 | Expense..... | F. W. Mally..... | 180 54 |
| | 1939 | Printing..... | Bryan Eagle..... | 5 50 |
| | 1940 | Expense..... | H. Williams..... | 3 33 |
| | 1941 | Expense..... | W. Newell..... | 1 50 |
| | 1942 | Apiary..... | W. Newell..... | 5 65 |
| | 1943 | Apiary..... | W. O. Victor..... | 29 25 |
| | 1944 | Apiary..... | T. Haswell..... | 1 50 |
| | 1945 | App. and inst..... | J. J. Jones..... | 7 50 |
| | 1946 | App. and inst..... | J. A. Myers..... | 35 53 |
| Apr. 7, 1902 | 1952 | Assistance..... | E. L. Bradley..... | 36 80 |
| Apr. 12, 1902 | 1953 | Expense..... | Binkley Hotel..... | 52 00 |

Expert Entomologist Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-------------------------|-------------------------------------|-----------|
| Apr. 30, 1902 | 2196 | Salary..... | F. W. Mally | \$ 125 00 |
| | 2197 | Salary..... | W. Newell..... | 80 00 |
| | 2357 | Apiary..... | W. F. Express Co..... | 3 05 |
| May 15, 1902 | 2481 | Apiary supplies..... | A. I. Root Co..... | 5 97 |
| | 2482 | Apiary supplies..... | A. I. Root Co..... | 175 94 |
| | 2483 | Apiary lumber..... | Garth, Howell & Webb..... | 79 88 |
| | 2484 | Apiary lumber..... | Garth, Howell & Webb..... | 61 79 |
| | 2485 | Apiary supplies..... | J. M. Thorburn | 3 70 |
| | 2486 | Apiary supplies..... | Mrs. L. L. Foster | 3 00 |
| | 2487 | Inst. app..... | Levy Bros..... | 3 50 |
| | 2488 | Inst. app..... | James & Castles | 6 50 |
| | 2489 | Expense..... | F. W. Mally | 45 10 |
| | 2540 | Apiary..... | W. Newell..... | 7 89 |
| | 2541 | Apiary, freight..... | H. & T. C. Ry. Co..... | 37 51 |
| | 2542 | Inst. and app..... | H. & T. C. Ry. Co..... | 5 12 |
| | 2553 | Salary..... | F. W. Mally | 125 00 |
| | 2634 | Salary..... | W. Newell..... | 80 00 |
| May 30, 1902 | 2711 | Apiary..... | J. M. Thorburn Co..... | 2 61 |
| | 2712 | Inst. and app..... | James & Castles..... | 22 50 |
| | 2713 | Inst. and app..... | J. J. Pastoriza..... | 15 00 |
| June 10, 1902 | 2818 | Apiary..... | W. F. Express Co..... | 2 85 |
| | 2819 | Apiary exp..... | W. F. Express Co..... | 40 |
| | 2820 | Apiary express..... | W. F. Express Co..... | 1 15 |
| July 1, 1902 | 2977 | Inst. and app..... | J. W. Culter..... | 88 |
| | 2978 | Inst. and app..... | T. Haswell..... | 3 00 |
| | 2979 | Inst. and app..... | Garth, Howell & Webb..... | 9 12 |
| | 2980 | Inst. and app..... | N. M. McDougald..... | 1 60 |
| | 2981 | Inst. and appn..... | J. A. Myers..... | 6 65 |
| | 2982 | Inst. and appn..... | L. Sarrazin | 30 00 |
| | 2983 | Inst. and appn..... | Shuman Iron Works..... | 132 75 |
| | 2984 | Lumber..... | Garth, Howell & Webb..... | 5 51 |
| | 2985 | Apiary supplies..... | J. M. Lawrence & Co..... | 4 00 |
| | 2986 | Hardware..... | J. A. Myers..... | 1 90 |
| | 2987 | Hardware..... | J. A. Myers..... | 15 65 |
| | 2988 | Hardware..... | J. A. Myers..... | 35 70 |
| | 2989 | Expense..... | F. W. Mally | 42 52 |
| | 2999 | Salary..... | F. W. Mally | 125 00 |
| | 3000 | Salary..... | W. Newell | 80 00 |
| | 3053 | Inst. and app..... | James Bute | 1 30 |
| | 3054 | Apiary supplies..... | J. M. Lawrence..... | 3 00 |
| | 3055 | Apiary supplies..... | Geo. W. York & Co..... | 1 00 |
| | 3056 | Inst. and app..... | Bausch Lomb Optical Co..... | 4 35 |
| | 3057 | Inst. and app..... | Reynolds Fisher..... | 3 25 |
| | 3058 | Inst. and app..... | American Entomolog'l Co..... | 6 80 |
| | 3059 | Inst. and app..... | American Entomolog'l Co..... | 40 |
| | 3060 | Inst. and app..... | N. M. McDougald..... | 1 85 |
| | 3061 | Hardware..... | Garth, Howell & Webb..... | 1 00 |
| | 3062 | Apiary supplies..... | W. J. Coulter..... | 60 |
| | 3063 | Apiary supplies..... | Von Boeckmann, Schutze & Co..... | 8 00 |
| | 3064 | Hardware..... | Walsch Hardware Co..... | 24 80 |
| | 3065 | Apiary supplies..... | Roberts, Sanford & Taylor Co..... | 1 90 |
| | 3115 | Apiary express..... | W. F. Express Co..... | 35 |
| | 3163 | Entomological asst..... | J. C. Booth..... | 3 05 |
| | 3164 | Entomological asst..... | C. Walden | 3 20 |
| | 3165 | Entomological asst..... | L. Scholl..... | 60 00 |
| | 3166 | Entomological asst..... | W. Newell..... | 6 18 |
| | 3167 | Apiary expenses..... | W. Newell..... | 1 50 |
| | 3168 | Inst. and app..... | J. A. Myers..... | 3 55 |
| July 30, 1902 | 3259 | Entomological asst..... | E. S. Booth..... | 14 00 |
| | 3260 | Expense..... | F. W. Mally | 43 00 |
| | 3261 | Inst. and app..... | H. Waddell..... | 8 10 |
| | 3262 | Inst. and app..... | Binkley Hotel | 8 60 |
| | 3263 | Inst. and app..... | F. W. Mally | 2 21 |
| | 3264 | Inst. and app..... | F. W. Mally | 36 00 |
| | 3265 | Apiary..... | A. I. Root Co..... | 3 43 |
| Aug. 5, 1902 | 3311 | Salary..... | F. W. Mally | 125 00 |
| Aug. 22, 1902 | 3312 | Salary..... | W. Newell..... | 80 00 |
| | 3362 | Apiary..... | A. and M. College Books..... | 2 40 |
| | 3365 | Apiary..... | Howell Bros..... | 1 84 |
| | 3364 | Inst. and app..... | American Entomolog'l Co..... | 31 85 |
| | 3365 | Inst. and app..... | W. Newell..... | 12 34 |
| | 3366 | Entomological asst..... | C. Walden | 36 60 |
| | 3367 | Entomological asst..... | L. Scholl..... | 60 00 |
| | 3368 | Entomological asst..... | T. Youngblood..... | 19 70 |
| | 3369 | Entomological asst..... | B. Royall..... | 8 25 |
| | 3370 | Entomological asst..... | B. Royall..... | 11 00 |
| | 3466 | Salary..... | F. W. Mally | 125 00 |

Expert Entomologist Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|---------------------|-----------------------|--------------------|
| Aug. 22, 1902 | 3467 | Salary..... | W. Newell..... | \$ 80 00 |
| Aug. 30, 1902 | 3528 | Expense..... | F. W. Mally..... | 25 52 |
| | 3529 | Apiary express..... | W. F. Express Co..... | 35 |
| | 3530 | App. and ins..... | W. F. Express Co..... | 6 95 |
| | 3531 | Assistance..... | L. Scholl..... | 60 00 |
| | 3532 | Assistance..... | W. Newell..... | 22 30 |
| | 3545 | Assistance..... | B. Royall..... | 1 65 |
| | 3547 | Assistance..... | T. Youngblood..... | 36 00 |
| | 3548 | App. and ins..... | J. A. Myers..... | 2 00 |
| | 3549 | App. and ins..... | James & Castles..... | 2 25 |
| | 3550 | App. and ins..... | T. Haswell..... | 1 25 |
| | 3551 | App. and ins..... | L. J. Silby..... | 150 50 |
| | 3552 | App. and ins..... | J. J. Pastoriza..... | 2 05 |
| | 3563 | Assistance..... | R. F. Smith..... | 129 96 |
| | 3564 | App. and ins..... | R. F. Smith..... | 4 78 |
| | 3565 | App. and ins..... | J. A. Myers..... | 1 87 |
| | 3566 | Apiary..... | W. O. Victor..... | 1 63 |
| | 3570 | Assistance..... | W. Newell..... | 8 98 |
| | | | | \$ 8,259 70 |

By balance last report..... \$ 1,959 70
 appropriation Twenty-seventh Legislature..... 2,000 00
 appropriation Twenty-seventh Legislature (called session)..... 4,300 00
 Expended..... \$ 8,259 70

\$ 8,259 70 \$ 8,259 70

CHEMICAL ANALYSIS ACCOUNT.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|------------------------|--------------------------------|---------|
| Sept. 7, 1900 | 345 | Chemical supplies..... | Houston Gas Light Co..... | \$ 1 17 |
| | 346 | Chemical supplies..... | Eimer & Amond..... | 10 20 |
| | 347 | Chemical supplies..... | Jno. Ingram..... | 30 |
| | 348 | Chemical supplies..... | Waco Electrical Supply Co..... | 2 50 |
| | 349 | Chemical supplies..... | W. A. Roberts..... | 22 35 |
| | 350 | Chemical supplies..... | H. F. Matthews..... | 20 80 |
| Oct. 10, 1900 | 627 | Express..... | W. F. Express Co..... | 1 05 |
| | 628 | Express..... | W. F. Express Co..... | 4 10 |
| | 629 | Stationery..... | Clarke & Courts..... | 1 15 |
| | 630 | Office supplies..... | Merchant & Manning..... | 5 50 |
| | 631 | Equipment..... | Eimer & Amond..... | 19 97 |
| | 632 | Expenses..... | J. A. Myers..... | 2 15 |
| Oct. 12, 1900 | 702 | Express..... | W. F. Express Co..... | 3 67 |
| | 703 | Freight..... | H. & T. C. Ry. Co..... | 3 24 |
| | 704 | Telegram..... | W. U. Telegraph Co..... | 25 |
| | 705 | Scholarship..... | W. J. Walden..... | 40 00 |
| Oct. 20, 1900 | 770 | Chemical supplies..... | Dunn & Daly..... | 3 50 |
| | 771 | Stationery..... | J. J. Pastoriza..... | 2 50 |
| | 772 | Oil..... | W. P. Oil Co..... | 14 84 |
| | 773 | Printing..... | Bryan Eagle..... | 8 00 |
| | 774 | Chemical supplies..... | A. Necco..... | 50 |
| | 775 | Labor..... | H. F. Matthews..... | 9 95 |
| Oct. 30, 1900 | 938 | Freight..... | H. & T. C. Ry. Co..... | 97 |
| | 951 | Salary..... | W. J. Walden..... | 30 00 |
| | 952 | Express..... | W. F. Express Co..... | 7 55 |
| Nov. 22, 1900 | 1133 | Supplies..... | Cahill, Swift Mfg. Co..... | 6 55 |
| | 1134 | Oil..... | W. P. Oil Co..... | 14 65 |
| | 1135 | Stationery..... | J. J. Pastoriza..... | 2 50 |
| | 1136 | Supplies..... | J. A. Myers..... | 85 |
| | 1137 | Supplies..... | Levy Bros..... | 55 |
| | 1138 | Supplies..... | James Bute..... | 2 45 |
| | 1139 | Chemical supplies..... | H. Heil Chemical Co..... | 15 40 |
| Nov. 30, 1900 | 1192 | Expenses..... | H. H. Harrington..... | 60 |
| Dec. 10, 1900 | 1406 | Express..... | W. F. Express Co..... | 1 90 |

Chemical Analysis Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|------------------------|-------------------------------|----------|
| Dec. 10, 1901 | 1407 | Scholarship..... | W. J. Walden..... | \$ 30 00 |
| Dec. 26, 1900 | 1451 | Express..... | W. F. Express Co..... | 80 |
| | 1452 | Scholarship..... | W. Walden..... | 30 00 |
| | 1453 | Printing..... | Bryan Eagle..... | 19 75 |
| | 1454 | Oil..... | W. P. Oil Co..... | 14 84 |
| | 1455 | Expense..... | Webb Bros..... | 2 75 |
| | 1456 | Expense..... | Dunn & Daly..... | 3 50 |
| | 1457 | Supplies..... | Eimer & Amond..... | 63 22 |
| Jan. 15, 1901 | 1573 | Stationery..... | Clarke & Courts..... | 4 85 |
| | 1656 | Labor..... | Ed Cole..... | 10 00 |
| | 1657 | Freight..... | H. & T. C. Ry. Co..... | 4 65 |
| | 1658 | Express..... | W. F. Express Co..... | 1 95 |
| | 1659 | Express..... | W. F. Express Co..... | 26 |
| | 1660 | Postage..... | W. C. Boyett, P. M..... | 5 00 |
| Feb. 5, 1901 | 1661 | Postage..... | W. C. Boyett, P. M..... | 5 00 |
| | 1879 | Postage..... | W. C. Boyett..... | 1 60 |
| | 1880 | Salary..... | W. J. Walden..... | 30 00 |
| Feb. 18, 1901 | 1881 | Express..... | W. F. Express Co..... | 1 85 |
| | 1989 | Printing..... | Bryan Eagle..... | 24 85 |
| | 1990 | Supplies..... | H. H. Heil Chem. Co..... | 13 22 |
| | 1991 | Hardware..... | Cole Bros..... | 85 |
| | 1992 | Chem. supplies..... | Hall's Drug Store..... | 3 35 |
| | 1993 | Express..... | W. F. Express Co..... | 4 65 |
| | 1994 | Telegram..... | W. U. Telegraph Co..... | 60 |
| Feb. 28, 1901 | 1995 | Labor..... | Joe Binford..... | 13 00 |
| | 2224 | Salary..... | W. J. Walden..... | 30 00 |
| | 2225 | Express..... | W. F. Express Co..... | 6 65 |
| | 2226 | Express..... | W. F. Express Co..... | 4 25 |
| Mar. 30, 1901 | 2310 | Labor..... | John Binford..... | 5 15 |
| | 2461 | Salary..... | W. J. Walden..... | 30 00 |
| | 2462 | Postage..... | W. C. Boyett..... | 5 00 |
| Apr. 12, 1901 | 2463 | Express..... | W. F. Express Co..... | 2 20 |
| | 2532 | Hardware..... | J. A. Myers..... | 3 68 |
| | 2533 | Supplies..... | Dunn & Daly..... | 3 50 |
| | 2534 | Supplies..... | Eimer & Amond..... | 23 21 |
| | 2535 | Supplies..... | T. Haswell..... | 85 |
| | 2536 | Hardware..... | J. A. Myers..... | 3 38 |
| | 2537 | Supplies..... | Ben S. Reed..... | 10 90 |
| Apr. 23, 1901 | 2538 | Printing..... | Bryan Eagle..... | 42 25 |
| | 2598 | Express..... | W. F. Express Co..... | 2 30 |
| | 2599 | Express..... | W. F. Express Co..... | 3 35 |
| | 2600 | Telegrams..... | W. U. Telegraph Co..... | 26 |
| | 2601 | Supplies..... | Eimer & Amond..... | 24 61 |
| | 2602 | Oil..... | W. P. Oil Co..... | 11 62 |
| May 10, 1901 | 2603 | Supplies..... | Webb Bros..... | 5 60 |
| | 2604 | Supplies..... | H. Rhode..... | 4 00 |
| | 2838 | Express..... | W. F. Express Co..... | 1 10 |
| | 2837 | Telegram..... | W. U. Telegraph Co..... | 51 |
| June 10, 1901 | 2839 | Salary..... | W. J. Walden..... | 30 00 |
| | 3065 | Postage..... | W. C. Boyett..... | 10 00 |
| June 20, 1901 | 3142 | Salary..... | W. J. Walden..... | 30 00 |
| June 30, 1901 | 3201 | Express..... | W. F. Express Co..... | 1 05 |
| | 3329 | Supplies..... | Ben S. Reed..... | 1 80 |
| | 3330 | Supplies..... | T. Haswell..... | 2 35 |
| | 3331 | Supplies..... | J. M. Lawrence & Co..... | 75 |
| | 3332 | Labels..... | Bryan Eagle..... | 33 30 |
| | 3333 | Labor..... | R. W. Yager..... | 1 15 |
| | 3334 | Express..... | W. F. Express Co..... | 25 |
| July 15, 1901 | 3335 | Freight..... | H. & T. C. Ry. Co..... | 3 86 |
| | 3472 | Labor..... | R. Eberspacher..... | 5 18 |
| | 3473 | Ice..... | W. A. Cone..... | 80 |
| | 3474 | Labor..... | W. H. McKay..... | 1 20 |
| | 3475 | Express..... | W. F. Express Co..... | 35 |
| July 26, 1901 | 3476 | Salary..... | W. J. Walden..... | 30 00 |
| Aug. 30, 1901 | 3576 | Labor..... | R. Eberspacher..... | 12 50 |
| | 3745 | Salary..... | P. S. Tilson..... | 100 00 |
| | 3814 | Salary..... | W. J. Walden..... | 30 00 |
| | 3815 | Freight..... | H. & T. C. Ry. Co..... | 4 06 |
| | 3816 | Ice..... | W. A. Cone..... | 1 80 |
| | 3873 | Express..... | W. F. Express Co..... | 1 16 |
| | 3874 | Salary..... | W. J. Walden..... | 30 00 |
| | 3875 | Ice..... | W. A. Cone..... | 1 45 |
| | 3917 | Printing..... | Bryan Eagle..... | 17 75 |
| | 3918 | Office supplies..... | T. Haswell..... | 2 35 |
| | 3919 | Chemical supplies..... | Dansby & Dansby..... | 50 |
| | 3920 | Chemical supplies..... | Wilson Drug Co..... | 80 |
| | 3921 | Chemicals..... | Eimer & Amond..... | 101 00 |
| | 3922 | Chemical supplies..... | American Spirits Mfg. Co..... | 23 46 |

Chemical Analysis Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-------------------------|-------------------------------|---------|
| Aug. 30, 1901 | 3923 | Labor..... | L. P. Lawley..... | \$ 1 68 |
| | 3924 | Express..... | W. F. Express Co..... | 1 00 |
| | 3925 | Labor..... | W. J. Andrews..... | 5 00 |
| Oct. 30, 1901 | 120 | Chemical supplies..... | H. Heil Chem. Co..... | 11 05 |
| | 121 | Chemical supplies..... | Behrens Drug Co..... | 9 15 |
| | 122 | Supplies..... | J. A. Myers..... | 1 50 |
| | 123 | Salary..... | W. J. Walden..... | 30 00 |
| | 124 | Express..... | W. F. Express Co..... | 1 00 |
| | 125 | Ice..... | W. A. Cone..... | 37 |
| | 126 | Postage..... | W. C. Boyett..... | 4 50 |
| | 127 | Freight..... | H. & T. C. Ry. Co..... | 46 |
| | 128 | Postage..... | W. C. Boyett..... | 5 00 |
| Nov. 11, 1901 | 357 | Printing..... | Bryan Eagle..... | 18 25 |
| | 383 | Salary..... | W. J. Walden..... | 30 00 |
| | 384 | Express..... | W. F. Express Co..... | 5 05 |
| Nov. 15, 1901 | 537 | Express..... | W. F. Express Co..... | 1 60 |
| | 538 | Express..... | W. F. Express Co..... | 6 33 |
| | 539 | Express..... | W. F. Express Co..... | 1 10 |
| Nov. 30, 1901 | 623 | Chemical supplies..... | Behrens Drug Co..... | 3 00 |
| | 624 | Chemical supplies..... | Eimer & Amond..... | 15 29 |
| | 625 | Chemical supplies..... | G. E. Steckert..... | 11 49 |
| Dec. 12, 1901 | 688 | Salary..... | N. Fraenkel..... | 6 66 |
| | 689 | Traveling expenses..... | N. Fraenkel..... | 50 00 |
| Dec. 20, 1901 | 760 | Salary..... | W. J. Walden..... | 30 00 |
| | 761 | Telegram..... | W. U. Telegraph Co..... | 1 64 |
| | 762 | Labor..... | W. Jones..... | 10 00 |
| | 763 | Freight..... | H. & T. C. Ry. Co..... | 2 24 |
| | 764 | Express..... | W. F. Express Co..... | 6 65 |
| Dec. 30, 1901 | 924 | Printing..... | Bryan Eagle..... | 59 75 |
| | 925 | Supplies..... | G. E. Steckert..... | 2 48 |
| | 926 | Equipment..... | H. Heil Chem. Co..... | 22 00 |
| | 927 | Chemical supplies..... | Merchant & Manning..... | 1 34 |
| | 928 | Postage..... | W. C. Boyett..... | 40 |
| | 929 | Chemical supplies..... | Behrens Drug Co..... | 50 |
| | 930 | Labor..... | Mack Foster..... | 40 |
| | 974 | Salary..... | N. Fraenkel..... | 16 66 |
| Jan. 10, 1902 | 1073 | Salary..... | W. J. Walden..... | 30 00 |
| | 1074 | Express..... | W. F. Express Co..... | 7 95 |
| | 1075 | Telegram..... | W. U. Telegraph Co..... | 50 |
| Jan. 20, 1902 | 1109 | Material..... | J. J. Pastoriza..... | 5 35 |
| | 1110 | Chemical supplies..... | Cabill, Swift Mfg. Co..... | 5 69 |
| | 1111 | Chemical supplies..... | G. E. Steckert..... | 1 18 |
| | 1112 | Stationery..... | Clarke & Courts..... | 6 95 |
| Feb. 10, 1902 | 1360 | Telegram..... | W. U. Telegraph Co..... | 1 63 |
| | 1361 | Salary..... | W. J. Walden..... | 30 00 |
| | 1362 | Salary..... | N. Fraenkel..... | 16 66 |
| | 1363 | Postage..... | W. C. Boyett..... | 5 00 |
| | 1364 | Freight..... | H. & T. C. Ry. Co..... | 1 20 |
| | 1365 | Freight..... | H. & T. C. Ry. Co..... | 3 70 |
| | 1366 | Postage..... | W. C. Boyett..... | 5 00 |
| | 1367 | Express..... | W. F. Express Co..... | 12 90 |
| | 1368 | Express..... | W. F. Express Co..... | 4 50 |
| Feb. 18, 1902 | 1497 | Supplies..... | Houston Gas Light Co..... | 5 00 |
| | 1498 | Oil..... | W. P. Oil Co..... | 27 18 |
| | 1499 | Chemical supplies..... | Behrens Drug Co..... | 95 |
| | 1500 | Supplies..... | Denver Fire Clay Co..... | 7 25 |
| | 1501 | Printing..... | Bryan Eagle..... | 137 55 |
| | 1502 | Stationery..... | T. Haswell..... | 2 95 |
| | 1503 | Hardware..... | J. A. Myers..... | 1 30 |
| | 1504 | Chemical supplies..... | Ben S. Reed..... | 4 90 |
| Mar. 10, 1902 | 1694 | Labor..... | John Binford..... | 11 70 |
| | 1695 | Freight..... | H. & T. C. Ry. Co..... | 15 22 |
| | 1696 | Salary..... | W. J. Walden..... | 30 00 |
| | 1697 | Salary..... | N. Fraenkel..... | 16 66 |
| | 1698 | Express..... | W. F. Express Co..... | 10 50 |
| | 1699 | Express..... | W. F. Express Co..... | 6 00 |
| | 1700 | Express..... | W. F. Express Co..... | 5 55 |
| Apr. 12, 1902 | 1955 | Supplies..... | Houston Gas Light Co..... | 5 00 |
| | 1956 | Supplies..... | Appel, Murdock Co..... | 5 70 |
| | 1957 | Chemical supplies..... | Matthews Gas Machine Co..... | 1 24 |
| | 1958 | Chemical supplies..... | J. M. Lawrence & Co..... | 2 25 |
| | 1959 | Chemical supplies..... | Franklin Laby. Supply Co..... | 10 30 |
| | 1960 | Supplies..... | John Wiley & Son..... | 2 55 |
| | 1961 | Printing..... | Bryan Eagle..... | 103 00 |
| | 1962 | Printing..... | Bryan Eagle..... | 10 85 |
| | 1963 | Stationery..... | J. J. Pastoriza..... | 1 00 |
| | 1964 | Oil..... | W. P. Oil Co..... | 12 19 |
| Apr. 30, 1902 | 2342 | Freight..... | H. & T. C. Ry. Co..... | 1 88 |

Chemical Analysis Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|------------------------|-----------------------------|-------------|
| Apr. 30, 1902 | 2343 | Freight..... | H. & T. C. Ry. Co..... | \$ 3 47 |
| | 2344 | Salary..... | W. J. Walden & N. Fraenkel. | 46 66 |
| | 2345 | Postage..... | W. C. Boyett..... | 5 00 |
| | 2346 | Express..... | W. F. Express Co..... | 6 15 |
| May 15, 1902 | 2429 | Chemical supplies..... | H. Heil Chem. Co..... | 11 11 |
| | 2534 | Express..... | W. F. Express Co..... | 90 |
| | 2535 | Salary..... | Walden & Fraenkel..... | 46 66 |
| | 2536 | Telegram..... | W. U. Telegraph Co..... | 52 |
| June 10, 1901 | 2804 | Salary..... | N. Fraenkel..... | 16 66 |
| | 2805 | Freight..... | H. & T. C. Ry. Co..... | 2 50 |
| | 2806 | Express..... | W. F. Express Co..... | 2 10 |
| July 1, 1902 | 2960 | Chemical supplies..... | Ben S. Reed..... | 10 95 |
| | 2961 | Chemical supplies..... | Webb Bros..... | 2 00 |
| | 2962 | Printing..... | Bryan Eagle..... | 6 85 |
| | 2963 | Hardware..... | J. A. Myers..... | 2 40 |
| | 2964 | Chemical supplies..... | F. W. Braun..... | 45 45 |
| | 3108 | Telegram..... | W. U. Telegraph Co..... | 50 |
| | 3109 | Express..... | W. F. Express Co..... | 1 00 |
| | 3113 | Chemical supplies..... | Sam Tolden..... | 3 00 |
| | 3114 | Labor..... | John Binford..... | 17 25 |
| | 3155 | Salary..... | W. J. Walden..... | 8 00 |
| | 3156 | Salary..... | Fraenkel & Walden..... | 46 66 |
| | 3157 | Postage..... | W. C. Boyett..... | 5 00 |
| | 3158 | Ice..... | John Ingram..... | 67 |
| | 3159 | Express..... | W. F. Express Co..... | 75 |
| July 30, 1902 | 3254 | Express..... | W. F. Express Co..... | 35 |
| | 3255 | Freight..... | H. & T. C. Ry. Co..... | 3 90 |
| | 3256 | Salary..... | P. S. Tilson..... | 50 00 |
| | 3257 | Labor..... | S. Denison..... | 4 50 |
| | 3258 | Labor..... | E. L. Myers..... | 3 65 |
| Aug. 22, 1902 | 3373 | Chemical supplies..... | Mallinkrodt Chem. Co..... | 18 93 |
| | 3374 | Chemical supplies..... | M. H. James & Co..... | 70 |
| | 3375 | Labor..... | J. V. Love..... | 1 60 |
| | 3376 | Labor..... | John Ingram..... | 1 36 |
| | 3377 | Express..... | Pacific Express Co..... | 80 |
| | 3378 | Salary..... | N. Fraenkel..... | 16 66 |
| | | | | \$ 2,601 66 |

By balance last report..... \$ 1,091 24

Receipts..... 3,574 25

Expended..... \$ 2,601 66

Balance unexpended..... 2,063 86

\$ 4,665 52 \$ 4,665 52

TREASURY ACCOUNT.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-------------------------|-------------------------------------|-----------|
| Apr. 18, 1901 | 2544 | Catalogues..... | Ben C. Jones & Co..... | \$ 180 50 |
| | 2545 | Farm supplies..... | John T. Hanway | 2 00 |
| | 2546 | Farm supplies..... | Howell Bros..... | 88 35 |
| | 2547 | Farm supplies..... | D. A. Hortman..... | 3 60 |
| | 2548 | Hardware..... | J. A. Myers..... | 10 80 |
| | 2549 | Hardware..... | J. A. Myers..... | 22 95 |
| | 2550 | Hardware..... | J. A. Myers..... | 29 73 |
| | 2551 | Farm supplies..... | John T. Hanway | 5 50 |
| | 2552 | Farm supplies..... | Garth, Howell & Webb..... | 2 58 |
| | 2553 | Feed..... | C. F. Moore..... | 16 39 |
| | 2554 | Farm supplies..... | Texas Seed and Floral Co.... | 40 00 |
| | 2555 | Telegrams..... | W. U. Telegraph Co..... | 52 |
| | 2556 | Labor..... | Lum Wilson..... | 1 35 |
| Apr. 23, 1901 | 2557 | Band music..... | John Church Co..... | 11 02 |
| Apr. 30, 1901 | 2672 | Traveling expenses..... | L. L. Foster..... | 82 65 |
| | 2730 | Office supplies..... | Bryan Eagle..... | 23 95 |
| | 2731 | Engraving..... | Gill Engraving Co..... | 28 18 |
| May 10, 1901 | 2830 | Express..... | W. F. Express Co..... | 35 |
| | 2831 | Labor..... | K. K. Hooper..... | 15 00 |
| | 2832 | Labor..... | A. Smoot et al..... | 100 00 |
| | 2833 | Labor..... | Geo. White et al..... | 13 75 |
| | 2834 | Labor..... | Youngblood et al..... | 111 15 |
| | 2840 | Express..... | W. F. Express Co..... | 25 |
| May 30, 1901 | 2906 | Band music..... | John Church Co..... | 3 97 |
| | 2907 | Hardware..... | J. A. Myers..... | 16 98 |
| | 2908 | Farm supplies..... | Dansby & Dansby..... | 45 80 |
| | 2909 | Implements..... | Parlin & Orendorff..... | 37 50 |
| June 1, 1901 | 3030 | Catalogues..... | Ben C. Jones & Co..... | 185 68 |
| | 3032 | Farm supplies..... | W. C. Boyett..... | 44 80 |
| | 3061 | Insurance..... | A. L. Banks..... | 27 85 |
| June 10, 1901 | 3082 | Labor..... | A. Smoot et al..... | 100 00 |
| | 3083 | Labor..... | Geo. Henry et al..... | 126 40 |
| | 3084 | Labor..... | C. Gray et al..... | 15 55 |
| | 3085 | Labor..... | K. K. Hopper..... | 15 00 |
| | 3086 | Labor..... | C. Boyett..... | 11 15 |
| June 20, 1901 | 3149 | Catalogues..... | J. J. Pastoriza Co..... | 3 00 |
| | 3150 | Catalogue covers..... | Capital City Book Co..... | 54 80 |
| | 3151 | Band supplies..... | C. G. Conn..... | 2 50 |
| | 3152 | Office supplies..... | Bryan Eagle..... | 8 20 |
| | 3153 | Cannery..... | American Can Co..... | 294 44 |
| | 3154 | Farm supplies..... | D. A. Hortman..... | 3 10 |
| | 3155 | Farm supplies..... | W. C. Boyett..... | 1 30 |
| | 3156 | Farm supplies..... | Wilson Jenkins Drug Co..... | 12 15 |
| | 3157 | Farm supplies..... | C. F. Moore..... | 4 70 |
| June 30, 1901 | 3320 | Advertising..... | Houston Printing Co..... | 26 39 |
| | 3321 | Catalogues..... | Von Boeckmann, Schutze & Co..... | 24 30 |
| | 3322 | Band..... | Joe Holick..... | 6 00 |
| | 3323 | Express..... | W. F. Express Co..... | 25 |
| | 3324 | Labor..... | M. Foster..... | 1 40 |
| | 3325 | Office supplies..... | Brazos Pilot..... | 3 00 |
| | 3326 | Freight on cannery..... | H. & T. C. Ry. Co..... | 64 77 |
| | 3327 | Freight..... | H. & T. C. Ry. Co..... | 1 30 |
| | 3328 | Cannery..... | U. S. Printing Co..... | 19 57 |
| July 15, 1901 | 3407 | Printing..... | Brazos Pilot..... | 4 50 |
| | 3408 | Office supplies..... | Bryan Eagle..... | 4 00 |
| | 3409 | Office supplies..... | Bryan Eagle..... | 23 85 |
| | 3410 | Supplies..... | Buchanan & Buchanan..... | 9 75 |
| | 3411 | Catalogues..... | T. Haswell..... | 50 00 |
| | 3412 | Catalogues..... | J. J. Pastoriza Co..... | 10 00 |
| | 3413 | Catalogues..... | Von Boeckman, S. & Co..... | 376 76 |
| | 3414 | Labor in cannery..... | J. C. Boyett et al..... | 51 95 |
| | 3415 | Labor in cannery..... | J. C. Boyett et al..... | 69 20 |
| | 3416 | Labor in cannery..... | J. C. Boyett et al..... | 75 70 |
| | 3417 | Labor in cannery..... | Biering et al..... | 94 20 |
| | 3418 | Labor in cannery..... | L. McPherson..... | 2 00 |
| | 3419 | Labor in cannery..... | A. M. Jones..... | 9 75 |
| | 3420 | Cannery supplies..... | J. A. Myers..... | 17 30 |
| | 3421 | Oil..... | W. P. Oil Co..... | 14 79 |
| | 3422 | Cannery supplies..... | American Can Co..... | 90 17 |
| | 3423 | Cannery supplies..... | B. Sbis..... | 20 93 |
| | 3424 | Labor..... | K. K. Hooper..... | 15 00 |
| | 3425 | Labor..... | Youngblood et al..... | 98 05 |
| | 3426 | Labor..... | Smoot et al..... | 100 00 |
| | 3427 | Labor..... | Sam Murray..... | 5 40 |
| | 3428 | Freight..... | H. & T. C. Ry. Co..... | 19 17 |
| July 26, 1901 | 3577 | Advertising..... | Express Pub. Co..... | 26 50 |
| | 3578 | Labor in cannery..... | J. C. Boyett et al..... | 68 40 |

Treasury Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-----------------------|------------------------------|-----------|
| July 26, 1901 | 3579 | Labor in cannery.. | J. C. Boyett et al. | \$ 173 20 |
| | 3580 | Labor..... | Sam Murray..... | 4 50 |
| | 3581 | Labor..... | W. E. Lee et al..... | 3 60 |
| Aug. 16, 1901 | 3679 | Cannery supplies..... | Subsistence department..... | 9 37 |
| | 3680 | Cannery supplies..... | J. A. Myers..... | 15 63 |
| | 3681 | Office supplies..... | Bryan Eagle..... | 5 50 |
| | 3682 | Office supplies..... | Brazos Pilot..... | 3 75 |
| | 3683 | Farm supplies..... | Keating Implement Co..... | 2 20 |
| Aug. 30, 1901 | 3752 | Office supplies..... | Brazos Pilot..... | 4 00 |
| | 3801 | Labor..... | Youngblood et al..... | 2 40 |
| | 3802 | Labor..... | N. F. Carson et al..... | 30 70 |
| | 3803 | Labor..... | A. Harrison..... | 22 70 |
| | 3804 | Labor..... | K. K. Hooper..... | 15 00 |
| | 3805 | Labor..... | F. D. Bittle et al..... | 6 55 |
| | 3806 | Labor..... | N. F. Carson et al..... | 40 30 |
| | 3807 | Labor..... | John Parks..... | 15 50 |
| | 3808 | Labor..... | C. Carson et al..... | 132 75 |
| | 3809 | Labor..... | A. Smoot et al..... | 94 00 |
| | 3810 | Labor..... | W. J. Andrews et al..... | 7 85 |
| | 3811 | Telegrams..... | W. U. Telegraph Co..... | 62 |
| | 3812 | Express..... | W. F. Express Co..... | 50 |
| | 3813 | Express..... | W. F. Express Co..... | 25 |
| | 3865 | Labor..... | A. Ramsey et al..... | 3 95 |
| | 3866 | Labor..... | Youngblood et al..... | 192 50 |
| | 3867 | Labor..... | K. K. Hooper..... | 15 00 |
| | 3983 | Salary..... | J. W. Carson..... | 41 66 |
| | 3984 | Salary..... | W. Y. Bain..... | 60 00 |
| | 3985 | Salary..... | J. A. Baker..... | 10 00 |
| Oct. 30, 1901 | 141 | Printing..... | Bryan Eagle..... | 19 50 |
| | 142 | Band music..... | John Church Co..... | 21 05 |
| | 143 | Band music..... | R. Wurlitzer..... | 1 20 |
| | 144 | Band music..... | R. Wurlitzer..... | 53 18 |
| | 247 | Salary..... | J. W. Carson..... | 83 33 |
| | 248 | Salary..... | J. A. Baker..... | 10 00 |
| | 249 | Salary..... | W. Y. Bain..... | 60 00 |
| | 299 | Postage..... | W. C. Boyett..... | 230 06 |
| Nov. 11, 1901 | 314 | Farm labor..... | A. Smoot et al..... | 100 00 |
| | 315 | Farm labor..... | A. Smoot et al..... | 100 50 |
| | 316 | Farm labor..... | Youngblood et al..... | 124 35 |
| | 317 | Farm labor..... | Youngblood et al..... | 119 75 |
| | 318 | Farm labor..... | H. E. Lee..... | 4 05 |
| | 319 | Farm labor..... | K. K. Hooper..... | 15 00 |
| | 320 | Feed..... | Bryan Cotton S. O. M..... | 800 00 |
| | 321 | Office supplies..... | Clarke & Courts..... | 5 50 |
| | 322 | Labor..... | M. L. Wallace..... | 3 00 |
| | 323 | Repairs..... | Stevenson Repair Co..... | 28 75 |
| | 324 | Advertising..... | Houston Printing Co..... | 39 40 |
| | 325 | Advertising..... | Texas Stockman & Farmer..... | 15 72 |
| | 326 | Advertising..... | Galveston News..... | 57 00 |
| | 327 | Advertising..... | Southern Mercury..... | 12 00 |
| | 328 | Advertising..... | Dallas News..... | 23 28 |
| | 329 | Advertising..... | Cuero Star..... | 2 00 |
| | 330 | Advertising..... | Farm and Ranch..... | 44 98 |
| | 331 | Advertising..... | Sherman Democrat..... | 4 00 |
| | 332 | Advertising..... | Stock and Farm Journal..... | 10 50 |
| | 333 | Advertising..... | Feld and Flur Pub. Co..... | 4 00 |
| | 334 | Advertising..... | Texas Vorwärts..... | 18 00 |
| | 335 | Advertising..... | Mail Telegram Co..... | 5 00 |
| | 336 | Advertising..... | The Truck Farmer..... | 2 50 |
| | 337 | Band..... | W. F. Express Co..... | 1 65 |
| | 669 | Salary..... | J. W. Carson..... | 83 33 |
| | 670 | Salary..... | J. A. Baker..... | 10 00 |
| | 671 | Salary..... | W. Y. Bain..... | 60 00 |
| | 773 | Farm labor..... | Youngblood et al..... | 133 50 |
| | 774 | Farm labor..... | Smoot et al..... | 90 00 |
| Nov. 15, 1901 | 540 | Labor..... | K. K. Hooper..... | 15 00 |
| | 541 | Band..... | T. Haswell..... | 30 |
| | 542 | Express..... | W. F. Express Co..... | 1 35 |
| Dec. 30, 1901 | 803 | Supplies..... | W. C. Boyett..... | 154 70 |
| Dec. 30, 1901 | 836 | Salary..... | J. W. Carson..... | 83 33 |
| | 837 | Salary..... | J. A. Baker..... | 10 00 |
| | 838 | Salary..... | W. Y. Bain..... | 60 00 |
| Jan. 10, 1902 | 1021 | Freight..... | H. & T. C. Ry. Co..... | 3 38 |
| | 1022 | Farm labor..... | Youngblood et al..... | 114 25 |
| | 1023 | Farm labor..... | Smoot et al..... | 116 00 |
| | 1024 | Office expenses..... | Brazos Pilot..... | 3 00 |
| | 1025 | Telegrams..... | A. Harris..... | 1 00 |
| | 1092 | Insurance..... | A. D. McConnico..... | 22 50 |

Treasury Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|---------------------------|--------------------------------|----------|
| Jan. 10, 1902 | 1093 | Feed..... | C. F. Moore..... | 9 159 48 |
| | 1094 | L. L. F. funeral exp..... | G. W. Londewalls..... | 219 50 |
| | 1095 | L. L. F. funeral exp..... | James & Stafford..... | 20 50 |
| | 1096 | L. L. F. funeral exp..... | Nabors Bros..... | 25 00 |
| Jan. 20, 1902 | 1213 | Advertising..... | A. & M. Record..... | 57 50 |
| Jan. 30, 1902 | 1246 | Salary..... | J. W. Carson..... | 83 33 |
| | 1247 | Salary..... | J. A. Baker..... | 10 00 |
| | 1248 | Salary..... | W. Y. Bain..... | 60 00 |
| Feb. 4, 1902 | 1267 | L. L. F. funeral exp..... | W. J. Lam, M. D..... | 3 00 |
| | 1269 | L. L. F. funeral exp..... | J. A. Tomhill, M. D..... | 4 00 |
| | 1317 | Feed..... | Bryan Oil Mills..... | 108 40 |
| | 1374 | Farm labor..... | A. Smoot et al..... | 126 10 |
| | 1375 | Farm labor..... | Youngblood et al..... | 113 00 |
| | 1376 | Farm labor..... | J. M. Boriski..... | 6 20 |
| | 1377 | Labor..... | K. K. Hooper..... | 15 00 |
| | 1378 | Labor..... | K. K. Hooper..... | 15 00 |
| | 1492 | Traveling expenses..... | J. R. Briggs..... | 20 00 |
| | 1493 | Oil..... | W. P. Oil Co..... | 2 55 |
| | 1494 | Feed..... | D. A. Hortman..... | 17 45 |
| | 1495 | Creamery supplies..... | Creamery Packing Co..... | 30 00 |
| | 1496 | Hardware..... | F. W. Heitmann & Co..... | 74 48 |
| Feb. 28, 1902 | 1577 | Salary..... | J. W. Carson..... | 83 33 |
| | 1578 | Salary..... | J. A. Baker..... | 10 00 |
| | 1579 | Salary..... | W. Y. Bain..... | 65 00 |
| Mar. 10, 1902 | 1626 | Farm supplies..... | Wilson & Jenkins..... | 3 00 |
| | 1627 | Farm hardware..... | J. A. Myers..... | 91 29 |
| | 1628 | Farm hardware..... | J. A. Myers..... | 17 10 |
| | 1629 | Feed..... | C. F. Moore..... | 92 56 |
| | 1630 | Feed..... | C. F. Moore..... | 11 20 |
| | 1631 | Feed..... | C. F. Moore..... | 14 50 |
| | 1632 | Farm supplies..... | W. C. Boyett..... | 25 |
| | 1633 | Shapirograph..... | Shapirograph Co..... | 8 00 |
| | 1701 | Farm labor..... | W. Springs..... | 6 00 |
| | 1702 | Farm freight..... | H. & T. C. Ry. Co..... | 51 00 |
| | 1703 | Labor..... | K. K. Hooper..... | 15 00 |
| | 1704 | Labor..... | K. K. Hooper..... | 15 00 |
| | 1705 | Farm supplies..... | Wm. Koppe..... | 19 80 |
| | 1706 | Labor..... | H. Adkins..... | 19 00 |
| | 1707 | Expenses..... | A. M. Ferguson..... | 11 20 |
| | 1708 | Exp. on ordnance..... | W. F. Express Co..... | 50 |
| | 1766 | Feed..... | McDuff Simpson..... | 49 50 |
| | 1767 | Farm labor..... | Youngblood et al..... | 91 50 |
| | 1768 | Farm labor..... | Smoot et al..... | 106 50 |
| Mar. 22, 1902 | 1874 | Printing..... | Bryan Eagle..... | 4 00 |
| | 1875 | Farm labor..... | Carpenter et al..... | 21 56 |
| | 1886 | Farm feed..... | National Cotton Oil Co..... | 352 50 |
| Mar. 30, 1902 | 1921 | Salary..... | J. W. Carson..... | 83 33 |
| | 1922 | Salary..... | J. A. Baker..... | 10 00 |
| | 1923 | Salary..... | W. Y. Bain..... | 65 00 |
| Apr. 12, 1902 | 1966 | Feed..... | Bryan Cotton Oil Co..... | 406 82 |
| | 1967 | Farm supplies..... | J. T. Hanway..... | 27 10 |
| | 1968 | Repairs..... | W. B. Grice..... | 8 00 |
| | 1969 | Feed..... | G. C. Street & Co..... | 117 45 |
| | 1970 | Hardware..... | Cole Bros..... | 47 20 |
| | 1971 | Express..... | Thompson Seed Co..... | 2 85 |
| | 1972 | Engraving..... | J. Manz Engraving Co..... | 5 04 |
| | 1973 | Dairy supplies..... | Patterson Parchment P. Co..... | 6 00 |
| | 1974 | Lumber..... | Garth, Howell & Webb..... | 13 80 |
| Apr. 30, 1902 | 2191 | Salary..... | J. W. Carson..... | 83 33 |
| | 2192 | Salary..... | J. A. Baker..... | 10 00 |
| | 2193 | Salary..... | W. Y. Bain..... | 65 00 |
| | 2333 | Farm labor..... | M. M. Carpenter..... | 10 50 |
| | 2334 | Farm labor..... | M. M. Carpenter..... | 32 98 |
| | 2335 | Traveling expenses..... | J. W. Carson..... | 8 85 |
| | 2336 | Farm labor..... | Youngblood et al..... | 92 60 |
| | 2337 | Farm labor..... | A. Smoot et al..... | 130 00 |
| | 2338 | Freight..... | H. & T. C. Ry. Co..... | 33 00 |
| | 2339 | Freight..... | H. & T. C. Ry. Co..... | 12 43 |
| | 2340 | Freight..... | H. & T. C. Ry. Co..... | 63 |
| | 2341 | Freight..... | H. & T. C. Ry. Co..... | 18 79 |
| May 15, 1902 | 2462 | Catalogues..... | Von Boeckmann, S. & Co..... | 37 50 |
| | 2463 | Catalogues..... | Ben C. Jones & Co..... | 99 26 |
| | 2464 | Catalogues..... | Von Boeckmann, S. & Co..... | 270 04 |
| | 2465 | Farm supplies..... | W. Foster..... | 9 20 |
| | 2466 | Farm supplies..... | J. T. Hanway..... | 3 50 |
| | 2467 | Farm supplies..... | Howell Bros..... | 129 72 |
| | 2468 | Feed..... | C. F. Moore..... | 159 22 |
| | 2469 | Hardware..... | J. A. Myers..... | 7 50 |

Treasury Account—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-------------------------|-------------------------------|--------------|
| May 15, 1902 | 2470 | Farm supplies..... | W. C. Boyett..... | \$ 1 80 |
| | 2471 | Feed..... | G. C. Street & Co. | 112 34 |
| | 2472 | Feed..... | G. C. Street & Co. | 337 50 |
| | 2516 | Ordnance..... | U. S. Ordnance Dept..... | 1 50 |
| | 2517 | Ordnance..... | U. S. Treasury Dept..... | 67 36 |
| | 2518 | Freight..... | H. & T. C. Ry. Co. | 12 94 |
| | 2519 | Freight..... | H. & T. C. Ry. Co. | 6 10 |
| | 2520 | Express..... | W. F. Express Co. | 55 |
| | 2521 | Traveling expenses..... | W. B. Philpot..... | 7 85 |
| | 2522 | Express..... | W. F. Express Co. | 65 |
| | 2523 | Express..... | W. F. Express Co. | 2 10 |
| | 2524 | Farm labor..... | Youngblood et al..... | 172 00 |
| | 2525 | Farm labor..... | Smoot et al..... | 125 00 |
| | 2526 | Freight..... | H. & T. C. Ry. Co. | 45 00 |
| | 2527 | Freight..... | H. & T. C. Ry. Co. | 2 00 |
| | 2528 | Seeds..... | Geo. Echols..... | 9 35 |
| May 30, 1902 | 2650 | Salary..... | J. W. Carson..... | 83 33 |
| | 2651 | Salary..... | J. A. Baker..... | 10 00 |
| | 2652 | Salary..... | W. Y. Bain..... | 65 00 |
| | 2706 | Feed..... | C. F. Moore..... | 17 85 |
| June 10, 1902 | 2800 | Farm labor..... | H. Youngblood et al..... | 184 25 |
| | 2801 | Farm labor..... | Smoot et al..... | 130 00 |
| | 2802 | Ordnance..... | H. & T. C. Ry. Co. | 77 33 |
| | 2803 | Express..... | W. F. Express Co. | 1 25 |
| July 1, 1902 | 2901 | Music..... | B. Weber Music Co. | 60 |
| | 2902 | Carpet..... | Levy Bros..... | 54 00 |
| | 2903 | Music..... | Levering Pub. Co. | 1 15 |
| | 2904 | Catalogues..... | State Printing Board..... | 12 02 |
| | 2905 | Catalogues..... | J. V. Love..... | 30 |
| | 2975 | Feed..... | Harder & Co. | 25 50 |
| | 2996 | Salary..... | J. W. Carson..... | 83 33 |
| | 2997 | Salary..... | J. A. Baker..... | 10 00 |
| | 2998 | Salary..... | W. Y. Bain..... | 65 00 |
| | 3050 | Catalogue postage..... | W. C. Boyett, P. M. | 178 62 |
| | 3051 | Examination books..... | J. J. Pastoriza..... | 102 70 |
| | 3052 | Lumber..... | Garth, Howell & Webb..... | 11 10 |
| | 3089 | Labor..... | McNeely et al..... | 28 50 |
| | 3090 | Farm labor..... | A. Harrison et al..... | 15 75 |
| | 3091 | Labor..... | John Ramsey..... | 20 00 |
| | 3092 | Express..... | W. F. Express Co. | 1 55 |
| | 3160 | Farm labor..... | Smoot et al..... | 100 00 |
| | 3161 | Farm labor..... | Youngblood et al..... | 146 00 |
| | 3162 | Sewer supplies..... | Cahill, Swift & Co. | 9 50 |
| July 30, 1902 | 3280 | Farm labor..... | R. Lee et al..... | 20 50 |
| | 3281 | Farm labor..... | T. G. Youngblood..... | 2 60 |
| | 3282 | Farm labor..... | W. E. Lee..... | 7 75 |
| | 3283 | Farm labor..... | R. Finley et al..... | 22 90 |
| | 3284 | Repairs..... | Henry & Brogden..... | 49 55 |
| | 3285 | Repairs..... | D. A. Hortman..... | 10 40 |
| | 3286 | Feed..... | Wm. Koppe..... | 80 65 |
| Aug. 5, 1902 | 3287 | Advertising..... | Farmer Pub. Co. | 10 50 |
| | 3308 | Salary..... | J. W. Carson..... | 83 33 |
| | 3309 | Salary..... | J. A. Baker..... | 10 00 |
| | 3310 | Salary..... | W. Y. Bain..... | 65 00 |
| | 3325 | 23 steers..... | 1st Nat'l Bank, Alvarado..... | 1,078 45 |
| | 3438 | Telegrams..... | W. U. Tel. Co. | 22 16 |
| | 3439 | Farm labor..... | Dick Washington..... | 8 00 |
| | 3440 | Farm labor..... | Youngblood et al..... | 139 50 |
| | 3441 | Farm labor..... | Smoot et al..... | 100 00 |
| | 3442 | Gravel labor..... | A. M. Jones..... | 27 90 |
| | 3443 | Gravel labor..... | Rom Finley..... | 2 20 |
| | 3444 | Salary..... | W. Y. Bain..... | 6 65 |
| Aug. 30, 1902 | 3464 | Salary..... | J. W. Carson..... | 83 33 |
| | 3465 | Salary..... | J. A. Baker..... | 10 00 |
| | 3533 | Catalogues..... | T. Haswell..... | 45 00 |
| | 3534 | Farm express..... | W. F. Express Co. | 1 55 |
| | 3535 | Labor..... | H. G. Youngblood et al..... | 207 35 |
| | 3536 | Labor..... | A. Smoot et al..... | 92 50 |
| | 3537 | Salary..... | J. W. McNeely..... | 65 00 |
| | 3538 | Labor..... | T. J. Adams..... | 7 85 |
| | 3539 | Express..... | W. F. Express Co. | 2 40 |
| | 3540 | Freight..... | H. & T. C. Ry. Co. | 4 95 |
| | 3541 | Freight..... | H. & T. C. Ry. Co. | 38 |
| | 3542 | Labor..... | T. J. Adams..... | 10 50 |
| | | | | \$ 16,043 51 |

Treasury Account—continued.

| | | |
|-----------------|--------------|--------------|
| Receipts..... | | \$ 13,788 98 |
| Expended..... | \$ 16,043 51 | |
| Overcheck | | 2,254 53 |
| | | <hr/> |
| | \$ 16,043 51 | \$ 16,043 51 |



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BIENNIAL REPORT

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OF TEXAS.

FOR THE FISCAL YEARS 1903-1904.



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AGRICULTURAL AND MECHANICAL COLLEGE OF TEXAS.

BIENNIAL REPORT OF THE BOARD OF DIRECTORS.

Hon. S. W. T. Lanham, Governor of Texas:

SIR: We herewith transmit the biennial report of the Agricultural and Mechanical College of Texas.

For a detailed discussion of the work and of the needs of the College, we will refer you to the accompanying reports of the President and of the officers and heads of departments. From these can be gathered a definite idea of the routine work of the institution, of the problems involved, and of the results accomplished.

PROGRESS OF THE COLLEGE.

The last Legislature, realizing the necessity of providing ample facilities for industrial training in Texas and of making a more serious effort to furnish information and assistance to the farmers of the State, placed at our disposal larger means for carrying on the work under our direction. It is fitting that a brief indication be given of the work accomplished by means of this more generous provision. We have by no means been able to meet all the demands of the people of the State. In order to accomplish adequate results many more thousands of dollars than have been appropriated, or are likely to be appropriated in the near future, would be needed.

Improvement of the Physical Property.—One of our principal aims has been to take as good care of the property of the State as the funds would permit. We were met by the difficulty that for years past, although the plant has grown to large proportions, there has been an average of only \$1200 or \$1300 a year for repairs. The result was that some of the property which had been in existence for twenty or more years was in a dilapidated condition, and the remainder of the property was in need of more or less extensive repairs. Some work has been done on practically every building on the grounds, the aim being to prevent further serious deterioration. The more extensive repairs were made as follows: Four of the old two-story brick residences, the President's house and one of the cottages, were completely overhauled inside. Gathright, Austin, Pfeuffer dormitories, the chapel and the mess hall were replastered and the interiors were repainted. Nine of the largest

buildings were wholly or partially reroofed. Nearly all of the old fences have been removed, and where fences were needed neat wire fences with cypress posts have been erected. The improvement in this respect is especially noticeable around the barns and along the avenue extending toward the east. The farm houses have been moved to a convenient point and these and all of the barns have been repainted. Walks have been constructed wherever the means permitted, and trees and flowers have been planted on the campus.

Additions to the Physical Property.—A number of important additions have been made to the physical property of the institution, as follows: A large and very substantial brick building for Textile Engineering; a large and convenient frame dairy building with two large and strongly constructed silos; the old barn put in condition for storing machinery and implements; five professors' cottages and three laborers' cottages; modern plumbing in the two detached closets for cadets; extension of the sewer system; a substantial iron fence across the front of the campus; new tables, washstands, chairs and wardrobes in each room in the dormitories; a modern soil physics laboratory in the agricultural building; chemical laboratory facilities largely augmented; a modern forge in the mechanical department; and considerable additions have been made to the shop and laboratory equipment of the departments, especially of the Entomological, Civil and Electrical Engineering, Drawing, Veterinary Science and Horticulture departments.

The Textile School.—The new State Textile School will be one of the most splendidly equipped educational departments in the South. The handsome building was completed several months ago and has been put in condition, under the supervision of the Director, Prof. J. S. Wier, for the installment of the equipment.

Some doubt existed at the outset as to whether the eastern manufacturers of machinery would consent to give liberal terms to the Texas State Textile School, because of the fact that usually large demands have been made upon them in recent years from various parts of the country, and because it was suspected that they might question the feasibility of cotton manufacturing in Texas. Under authorization of the Board of Directors a committee, consisting of Governor George T. Jester, of Corsicana, a member of the Board; the director of the school, Prof. J. S. Wier, and the President of the College, Dr. D. F. Houston, visited the New England States during the summer for the purpose of laying before the manufacturers the aims of the school, the support accorded to it by the State, and the possibilities of textile manufacturing in Texas. All the important manufacturers were interviewed. With comparatively few exceptions, the manufacturers expressed great interest in the textile school, asserting that they believed that Texas would necessarily become a great manufacturing center for cotton and that the Texas Textile School would play an important part in stimulating and directing the movement, not only by turning out trained men, but by serving as a sort of bureau of information for communities interested in cotton manufacturing.

Nearly every one of the manufacturers, after full conference with the committee, made generous donations of their machinery to the institution. The director, Prof. J. S. Wier, carefully selected various types of machines which should illustrate the different processes of cotton manufacturing from the reception of the crude cotton in the building to the turning out of the finished product. The following list of equipment has already been arranged for, and will be installed in the building as it arrives at the College, and when set up will illustrate a thoroughly scientific, modern, practical textile equipment:

Complete Webster Vacuum Steam Heating System and General Fire Extinguisher Company's Sprinkler System, one power elevator, metallic drawing rolls for two drawing frames, one 44-spindle reel, one banding machine, six slasher beams, one drawing-in frame, one spinning frame, one self-feeding opener, one breaker lapper, one cleaning trunk, one gauge box, three revolving flat cards, three 4-delivery drawing frames, one 64-spindle roving frame, three 112-spindle spinning frames, one finisher lapper, one thread extractor, one satteen loom, one plain cotton loom, one slasher warper and balling machine, one Weeks banding machine, one 40-spindle spooler, one 64-spindle twister, one Northrop print cloth loom, one Northrop satteen loom, temples for all looms in the school, one intermediate roving frame, complete system of vortex, one plain power loom, one gingham loom, ten hand looms, one cloth inspecting machine, one railway sewing and rolling machine, one brushing and calendaring machine, one cloth folding machine, one 6-head winding machine, two barber knotters, one plain loom for twills and satteens, one Crompton gingham loom, two Knowles gem dress goods looms, one Crompton damask loom, one cotton loom with 400 hook Jacquard, one 36-spindle spooler, one 36-spindle skein winder, one 36-spindle slubber, one 600-hook Jacquard machine, one 400-hook Jacquard machine, one slasher, one size kettle, one overhead track and hoist.

The market price of the foregoing equipment is \$20,112.52. Owing to the donations made by the manufacturers the State will expend for the foregoing equipment only \$8287.16, the amount of the donations to the State by eastern manufacturers being up to date, \$11,825.36. The whole State will undoubtedly appreciate the generosity of these outside manufacturers and their wise foresight in desiring to have their machinery represented in the State school. No better evidence of their confidence in the future of the industry in the State could be furnished. It is only proper that the people of the State should know who the companies are that have contributed to their institution. They are as follows: General Fire Extinguisher Co., Charlotte, N. C.; Park Manufacturing Co., Charlotte, N. C.; the Metallic Roll Co., Indian Orchard, Mass.; D. A. Tompkins Co., Charlotte, N. C.; Howard & Bullough American Machine Co., Pawtucket, R. I.; Kitson Machine Co., Lowell, Mass.; Whitin Machine Works, Whitinsville, Mass.; the Draper Co., Hopedale, Mass.; the Sacco & Pettee Machine Shops, Newton Upper Falls, Mass.; the American Moistening Co., Boston, Mass.; Kilburn, Lincoln & Co., Fall River, Mass.; Philadelphia Textile School, Philadelphia, Pa.; Curtis and Marble Machine Co., Worcester, Mass.; Crompton & Knowles Loom Works, Worcester, Mass.; the Easton & Burnham Machine Co., Pawtucket, R. I.; Woonsocket Machine and

Press Co., Woonsocket, R. I.; Thos. Halton Sons, Philadelphia, Pa.; Cohoes Iron Foundry and Machine Co., Cohoes, N. Y.

Since the first two years of the four years textile course will be, in large measure, similar to the mechanical engineering course, students can enter upon this course at any time, knowing that before they reach the technical work the complete installment of machinery will be in operation. An additional engine and dynamo have been placed in the power house and the machinery will be operated by electricity.

Agriculture Work.—The College was able to do much more effective work during the last two years in all agricultural lines. Important experiments were carried on by the experiment station at College and through the sub-stations at Troupe and Beeville. For details of this work we would refer you to the report of the director. Furthermore, each of the agricultural departments, including the Department of Entomology have answered thousands of inquiries for farmers in all sections of Texas. One department alone answered more than 3000 letters. Bulletins have been regularly issued to farmers on the mailing list, whose names now number 18,000 or 20,000. Particularly important has been the work of the department of the Farmers' Institutes. This department in co-operation with the press and the railroads and Federal government has conducted more than 100 institutes in the various counties of the State. The services of fifteen or twenty men taken from the College and from the better farmers of the State were enlisted. Especially close relations were established with the Federal government in several lines of work. The Federal Department of Agriculture placed at our disposal \$1500 for entomological work, \$500 for experiments with cotton rust, approximately \$4000 for cotton breeding and \$2500 for institute work, making a total of \$8500. Some of this work will be continued during the current year. Decided improvement was made by the experiment station staff in concentrating the work at the College on a fifty-acre plat on the southwest side of the railroad. Heretofore the work has been scattered and shifting. The plat selected has been carefully mapped and will be the permanent location.

Enrollment.—Last year the total College enrollment was 367. This year it has reached already 408 and at least fifty applicants have been turned away for lack of room. Others doubtless would have applied had not notices been issued through the press that the College could not receive more students. An increased number could not be taken care of even with a new dormitory, unless further provision than is asked for were made for additional teaching force, additional running expenses, shop and laboratory facilities, and mess hall accommodations. The enrollment by departments is as follows:

Agriculture: Freshman 57, Sophomore 15, Junior 14, Senior 21, elective 14; total, 121. Civil Engineering: Freshman 46, Sophomore 41, Junior 25, Senior 13, graduate 2, special 3; total, 130. Electrical Engineering: Freshman 34, Sophomore 22, Junior 7, Senior 2, special 2; total, 67. Mechanical Engineering: Freshman 44, Sophomore 16, Junior 9, Senior 8, special 1; total, 78. Textile Engineering: Freshman 5, Sophomore 1, Junior 3, Senior 2; total, 11. Special industrial

1; grand total, 408. The agriculture enrollment, unlike that of past years, is a bona fide enrollment, all of the students seriously seeking agricultural training. We shall this year graduate the largest number of agriculture students the College has ever turned out. These men are unusually strong and will reflect credit on the College. The enrollment in the Electrical Engineering course is especially gratifying, evidencing the strong demand for instruction along this line, and demonstrating the wisdom of the Board in establishing the department. The number enrolled in the textile department is no indication of what the demand will be for that work, as the machinery has not yet been installed, and the course is not yet in full operation. There is gratifying evidence that our graduates are more and more disposed to return to the College for advanced instruction.

It is worthy of note that, although the admission requirements have in certain respects been strengthened, the College enrollment has increased. The requirements now make satisfactory connection with the great mass of the schools of the State. There is some duplication of the work done by many of the high schools, but this for some time will be unavoidable. The present student body is much more mature and serious than previous student bodies have been, and in the main discipline has been very satisfactory.

Every course of study has been thoroughly considered by the Faculty, and revised and enriched. The changes made in the agriculture course have been made with the view to securing as large amount of practice as possible and reference has been had especially to the men in the lower classes, many of whom do not go beyond the Sophomore year.

Additions to the Force of Officers.—The force of instructors and investigators has been materially strengthened. The following additions have been made: Associate professor of animal husbandry, instructor in veterinary science, instructor in industrial chemistry, instructor in agricultural chemistry, cotton specialist, director of the textile school, director of farmers' institutes, instructor in industrial history, associate professor of civil engineering, instructor in entomology, and professor of electrical engineering.

Positions Held by Some of the Graduates.—It would be impossible to indicate in detail the success which has attended the graduates of the College in their various lines of work. In engineering, however, they occupy positions from rodmen and chainmen up to superintendent of division of railways. It is gratifying to note the high positions some of our graduates in agriculture have attained. E. J. Kyle occupies the position of head of the Department of Horticulture in this College; J. W. Carson, the position of Director of Farmers' Institutes in this College; Dr. L. L. Lewis, the position of Professor of Veterinary Science in the Agricultural and Mechanical College of Oklahoma; S. E. Barnes, the position of Instructor in Dairying in the University of Tennessee; A. M. Furguson, the position of Instructor in Plant Pathology in the University of Texas; W. T. Carter, the position of assistant in the Bureau of Soils, Department of Agriculture, Washington; E. K. McGinnis, superintendent Green's demonstration farm, Terrell, Texas;

W. C. Martin, Instructor in Industrial Chemistry at this College, and P. S. Tilson, Assistant State Chemist at this College. F. E. Giesecke, a graduate in Engineering, is the efficient head of the Department of Drawing; A. Mitchell, Instructor in Drawing; V. H. Foy, Instructor in Iron Work, and A. B. Connor and J. C. Burns, assistants in the Farm and Animal Husbandry departments. As a rule public attention is directed only to graduates of the College. The thousands of students who have spent from one to three years here are overlooked. Nearly all of these enter the industrial life of the State and a very large percentage go back to the farms or to the ranches.

While quite a large number of the ex-cadets of the College go directly into the agricultural work of the State, the question is still frequently asked why the College does not turn out more men who pursue agricultural lines of work. Many explanations of this might be offered. Up to within a comparatively few years neither the teaching force nor the equipment of the College has been such as to give the very best results or to create the largest amount of enthusiasm for agricultural work. The main answer, however, is that there is no law compelling farmers and others in the State to send their sons here to study agriculture, and no law which gives the Faculty the right to compel young men who are sent here to study agriculture. The College is prepared to give efficient instruction, theoretically and practically, in all lines of agricultural work. It lies with the farmers and others to answer the question why more of their boys do not select agriculture. If they will send them here to study agriculture, the College can and will teach them.

NEED OF THE COLLEGE.

Estimates for the Fiscal Years 1905-6, 1906-7.

At the close of this report you will find appended a summary of the appropriations which we deem necessary for the successful prosecution of the College work of instructing students and of serving the farmers of the State, on the present basis. If the State were able to make a large outlay for agricultural and industrial education at this time, we should urge a large extension of facilities here for accommodating and instructing students, for experimental work in all lines, and for extension work among farmers through such agencies as the Farmers' Institutes. We should ask for a dormitory which would accommodate the students who are seeking industrial training, and we should ask for funds for agricultural research, and for affording assistance to farmers sufficient to meet the tremendous demands. If the States do not do their part toward fostering agricultural and other industrial pursuits, the pressure will be such that the Federal government will inevitably be compelled to satisfy the demands of the people and thus appropriate to itself activities which it was never intended it should develop, and which can better be directed by State agencies in direct touch with the local conditions. The Federal government can and will deal with problems which are of national or of interstate interest, but it is no part of its functions to deal with agricultural problems of a local nature. Unfortunately the tendency is to rely upon the Federal government very

largely for such work. If some check is not interposed, centralization will result far beyond anything conceived, even by the early advocates of a strong government. The only effective check is for the State to appropriate sufficient money to do efficiently through its own agencies what the people have determined to have. State integrity and autonomy can not be preserved by declamation or mere protest. Control over its own problems, through its own agencies, effectively supported, alone will accomplish the desired end. The results will justify the investment, not only through industrial development, but also through the preservation of our Federal form of government. Thomas Jefferson never said a truer thing than that whether the Federal or State governments should appropriate the field of debatable powers would depend on which most clearly recognized its duties and discharged them most efficiently.

At most, for the present, however, it is unlikely that the Legislature will be able to make more than sufficient appropriations to make stronger the present lines of work with moderate extensions. Bearing in mind the present financial situation of the State, we have thought best to request only the appropriations which would satisfy this requirement. We have, therefore, not thought it advisable to ask for a dormitory, which is badly needed, because this would involve a large appropriation in itself, and require an increase all along the line, since the present student body more than taxes to its capacity our teaching force, as well as our laboratories and boarding facilities.

We shall briefly direct attention to the various parts of the appropriations required.

ORDINARY APPROPRIATIONS.

Salaries and Operating Expenses.—Little or no comment by way of application of these items is needed. The addition of new departments, such as Textile Engineering and Animal Husbandry and the increase of students make a normal increase under these two heads inevitable. Provision must be made for three additional instructors in the Textile School, one in Electrical Engineering, one in Mathematics, one in English, and one in Plant Diseases. The increase in the attendance necessitates the expenditures requested for operating expenses.

SPECIAL APPROPRIATIONS.

Shop and Laboratory Equipment.—Particular attention to the special appropriation is requested. There is an urgent need of additions to our shop and laboratory equipment. For years previous to the meeting of the last Legislature no appropriations of any consequence were made for equipment of shops or laboratories. It is impossible to do modern educational work without such facilities. New departments as well as old need additional facilities. The Agricultural Department should have farm crops and plant diseases laboratories; the departments of Physics and of Electrical and Civil Engineering are in serious need of machinery; the Mechanical Engineering equipment is already inade-

quate for the number of students and some of it is out of date, and some of the Chemistry laboratories are not equipped.

Warehouse.—The College now has no place to store supplies or materials used for the mess hall, the barracks, in many of the shops, and by the plumber and carpenter. A warehouse is absolutely necessary. Without it we are compelled to order supplies in less than carload lots, paying unnecessarily high prices and freight rates.

Repairs.—It will require a considerable appropriation to finish bringing the property of the College up to a reasonable physical standard. The floors and stairs of some of the large buildings need renewing; nearly all the main College buildings and the cottages need repainting and repairing, and must have it to prevent further deterioration; much of the wiring should be changed to conform to underwriters' rules; the plastering of two of the dormitories demands overhauling, and the stand pipe needs several new sections.

Natatorium.—In some respects the most urgent single need of the College is comfortable bathing facilities for the students. At present we have nothing but a pool, which is in bad condition and is scarcely protected from the cold by the shell of a building in which it stands. The College should have a first class natatorium at the earliest possible moment.

Engineering Building.—The need for an Engineering building is much more urgent now than it was when the last Legislature made an appropriation for it. Nearly 300 students are taking Engineering, and approximately 200 are studying Civil and Electrical Engineering. Nearly all the students take drawing. These three departments are in very cramped quarters and occupy space which is sorely needed for section rooms, offices and laboratories.

Farmers' Institutes.—The other special appropriations requested are mainly for agricultural purposes. The desire in the State to do something for the farming interests is very strong. If the appropriations requested were made much help could be rendered. No more important agency in helping those actually engaged in farming has been devised than that of Farmers' Institutes. A number of States appropriate for this purpose \$10,000 to \$20,000 annually. Illinois appropriated \$18,150, Michigan \$7500, Indiana \$10,000, Minnesota \$18,000, New York \$20,000, Ohio \$16,749, Pennsylvania \$15,000, and Wisconsin \$12,000. Members of the College force and the best practical farmers in the State are employed regularly to speak to audiences on agricultural topics. The money is needed for advertising, for traveling expenses, for compensation, for publication of reports, as well as for other extension features.

Experiment Fund.—The Federal government now gives the College \$15,000 a year for experimental work and is spending large sums an-

nually independently of the College. It looks as if the State ought to do its part; and we have requested an amount equal to the Hatch fund to be expended under the authorities of the College at their discretion wherever the work can be carried on in the State to the greatest advantage. We urge that the general experiment fund of \$15,000 annually be provided. We also urge that an appropriation be made for an experiment station barn in which the stock, implements and experimental products can be cared for.

Live Stock, etc.—We again request an appropriation for live stock, sheds, paddocks and wind mills, and for veterinary barns and pens. We urge that the amounts indicated be reinserted in the appropriation bill. The equipment is needed not only for carrying on experiments in the interest of the large cattle owners and farmers of the State interested in live stock, but also for instructional purposes. The students have become deeply interested in the study of live stock and especially in the matter of stock judging. Teams of students have already won prizes in contests and will compete annually hereafter at Chicago in the international live stock show.

Forcing House.—The departments of Horticulture, Agriculture, Botany, Plant Diseases and Entomology are handicapped because they have no forcing house facilities for breeding work. The College should have a large house constructed chiefly of glass which will satisfy the needs of the four departments mentioned. Such a house will cost from \$7500 to \$10,000.

Professors' Cottages.—During the next fiscal years at least two additional professors' cottages will be necessary. These need not be large, and with out-houses, wiring, etc., can be erected for about \$2000 each.

Laborers' Cottages.—The College has not a sufficient number of cottages for laborers and janitors. Without adequate accommodations it is very difficult for the College authorities to secure and retain good laborers. Three of these can be erected for approximately \$2000.

Hack, Teams and Harness.—The College grounds including the farm and experimental fields are extensive. The College has not and never has had any facilities for meeting visitors and officials and for showing them over the College property. We urge that the appropriation requested for this purpose be made.

Miscellaneous.—We have requested the usual appropriations for the improvements of roads, for student labor, and for sub-stations.

Appended will be found a detailed statement of expenditures and of the conditions of the various accounts. The report of the President refers to the deficiency in some of the accounts and explains how it occurred. Briefly speaking, it arose partly from the necessity of doing something to prevent the serious deterioration of part of the College buildings, partly from the fact that for several years no appropriation

was made for the expenses of the Board meetings, partly because a former Board found it necessary to provide a cottage for the commandant, and partly because the price of provisions increased and the mess hall for two years did not quite meet expenses. The overchecks in these funds were taken care of out of other funds. A careful audit of the books showed an overcheck in the several funds involved of approximately \$16,900 on August 31, 1904. We have already made provision for approximately \$13,000 of this out of available funds, practically extinguishing the deficit. The greater part of the deficiency will thus be wiped out during the course of this session. We believe that the Legislature should make a special appropriation for the expenses of the meetings of previous boards and for the cottage which was erected for the Commandant's family. The accounts of the Treasurer have been carefully audited by an expert and found to be correct.

Respectfully submitted,

MARION SANSOM,
F. A. REICHARDT,
K. K. LEGETT,
GEORGE T. JESTER,
L. D. AMSLER,
A. HADUSEK,
W. J. CLAY,
A. J. BROWN,
Board of Directors.

LEGISLATIVE APPROPRIATIONS.—REGULAR APPROPRIATIONS.

| Salaries. | 1905-6. | 1906-7. |
|--|----------|----------|
| President (part) | \$500 00 | \$500 00 |
| Professor of Agriculture (part)..... | 1250 00 | 1250 00 |
| Animal Husbandry | 1800 00 | 1800 00 |
| Instructor in Dairying..... | 1500 00 | 1500 00 |
| Instructor in Drawing..... | 1400 00 | 1400 00 |
| Professor of Languages..... | 1800 00 | 1800 00 |
| Second Instructor in Drawing..... | 800 00 | 800 00 |
| Professor of English..... | 1500 00 | 1500 00 |
| Instructor in English..... | 1200 00 | 1200 00 |
| Physical Director | 900 00 | 900 00 |
| Instructor in Iron Work..... | 720 00 | 720 00 |
| Associate Professor in Industrial History..... | 1300 00 | 1300 00 |
| Dean of Agriculture and Director of Station (part) | 1500 00 | 1500 00 |
| Instructor in Veterinary Science..... | 1200 00 | 1200 00 |
| Cotton Specialist | 500 00 | 500 00 |
| Professor of Botany..... | 2000 00 | 2000 00 |
| Associate Professor in Plant Diseases..... | 1800 00 | 1800 00 |
| Associate Professor, Agriculture, Chemistry (part) | 520 00 | 520 00 |
| Associate Professor, Industrial Chemistry..... | 1400 00 | 1400 00 |
| Professor of Physics and Electrical Engineering.. | 2500 00 | 2500 00 |
| Instructor in Physics and Electrical Engineering.. | 1200 00 | 1200 00 |
| Associate Professor in Civil Engineering..... | 1800 00 | 1800 00 |
| Director Textile School..... | 2000 00 | 2000 00 |

| | | |
|---|-----------|-----------|
| Instructor in Weaving..... | \$1500 00 | \$1500 00 |
| Instructor in Weaving and Designing..... | 1200 00 | 1200 00 |
| Assistant in Carding and Spinning..... | 900 00 | 900 00 |
| Librarian | 750 00 | 750 00 |
| Professor of Entomology and State Entomologist.. | 2250 00 | 2250 00 |
| Instructor in Entomology..... | 1000 00 | 1000 00 |
| Assistant Entomologist and Apiarist..... | 800 00 | 800 00 |
| Stenographer, Department of Entomology..... | 720 00 | 720 00 |
| Director of Farmers' Institutes..... | 1500 00 | 1500 00 |
| Professor of Veterinary Science (part)..... | 1000 00 | 1000 00 |
| Associate Professor Mechanical Engineering (part) | 540 00 | 540 00 |
| Engineer power plant..... | 1080 00 | 1080 00 |
| Instructor in Mathematics..... | 900 00 | 900 00 |
| Clerk for Commandant..... | 405 00 | 405 00 |
| Permanent laborers on Campus..... | 720 00 | 720 00 |
| Janitors | 1540 00 | 1540 00 |
| Bugler | 810 00 | 810 00 |
| Night Watchman | 480 00 | 480 00 |
| Carpenter | 720 00 | 720 00 |
| Plumber | 720 00 | 720 00 |

RUNNING EXPENSES.

| | 1905-6. | 1906-7. |
|---|----------|----------|
| Civil Engineering Department..... | \$500 00 | \$500 00 |
| Steam Plant Department..... | 5000 00 | 5000 00 |
| Mechanical Engineering Department..... | 1200 00 | 1200 00 |
| Horticulture Department | 800 00 | 800 00 |
| Veterinary Department | 500 00 | 500 00 |
| Agricultural Department | 600 00 | 600 00 |
| Animal Husbandry and Dairying..... | 750 00 | 750 00 |
| Physics and Electrical Engineering..... | 1200 00 | 1200 00 |
| Botany and Plant Diseases..... | 800 00 | 800 00 |
| Entomology Department | 1500 00 | 1500 00 |
| Drawing Department | 300 00 | 300 00 |
| Military Department | 200 00 | 200 00 |
| Textile School | 750 00 | 750 00 |
| Library | 2000 00 | 2000 00 |
| Fuel | 2000 00 | 2000 00 |
| Care of grounds | 1000 00 | 1000 00 |
| Board's expenses and per diem..... | 1000 00 | 1000 00 |
| Treasurer's traveling expenses..... | 50 00 | 50 00 |
| President's contingent, including expenditures for printing catalogues, reports, stationery, circulars, advertising, postage, labor, etc..... | 4000 00 | 4000 00 |

SPECIAL APPROPRIATIONS.

| | 1905-6. | 1906-7. |
|--|-------------|---------|
| Agriculture and engineering shop and laboratory equipment | \$26,000 00 | ..... |
| Warehouse | 5,000 00 | ..... |

| | | |
|--|-------------|-------------|
| Repairs | \$15,000 00 | \$10,000 00 |
| Natatorium | 18,000 00 | ..... |
| Farmers' Institutes | 8,500 00 | 8,500 00 |
| General experiment fund..... | 15,000 00 | 15,000 00 |
| Engineering building | 40,000 00 | ..... |
| Experiment Station barn..... | 3,000 00 | ..... |
| Live stock and sheds, paddocks and windmills.. | 15,000 00 | ..... |
| Forcing house for Horticulture, Entomology and Botany | 7,500 00 | ..... |
| Veterinary barns and pens..... | 5,000 00 | ..... |
| Hack and team | 700 00 | ..... |
| Two professors' cottages..... | 4,000 00 | ..... |
| Three laborers' cottages..... | 2,000 00 | ..... |
| Roads | 5,000 00 | ..... |
| Student labor | 5,000 00 | 5,000 00 |
| Beeville Sub-station | 3,000 00 | 3,000 00 |
| Troupe Sub-station | 3,000 00 | 3,000 00 |

REPORT OF THE PRESIDENT.

Hon. Marion Sansom, President Board of Directors, Agricultural and Mechanical College of Texas:

SIR: I have the honor to submit the following biennial report of the Agricultural and Mechanical College of Texas.

Admission Requirements.—In the last biennial report attention was called to the fact that the work of the College had been hampered by the presence of numbers of immature, untrained boys; that in many instances these boys were sent here by parents who did not know what else to do with them, and that the boys themselves had no serious object and did not profit by their connection with the College. To meet this difficulty the Faculty raised the age requirement to 16 and increased the admission requirements for the Engineering courses. This action resulted in such decided improvement that the Faculty subsequently made the requirements the same for all courses. The result has been a vast improvement in the character of the student body, intellectually and morally. As a rule now the students here are mature and serious in their intentions. The vast majority of them really desire to secure a thorough technological training for their life work as farmers, horticulturists, stockmen or engineers.

Realizing that the increased requirements might operate against young men from the country, who had not had access to thoroughly good schools, the Faculty at the same time provided that young men 18 years old or over, of good intelligence, who had studied the required subjects, might, with the approval of the President, be admitted without examination.

I think that the existing requirements allow every worthy boy, who desires a technological training, whether he comes from the city or country, to secure admission to the College. Not only have we these special provisions for mature students, but we also have provisions by which graduates from approximately 150 high schools scattered throughout the State may enter the College without examination. These high schools include not only the high schools in cities and large towns, but also in many of the villages in country districts.

Interests Represented.—An examination of the records shows that as a rule the industrial classes of the State are the patrons of the College. The industries or occupations represented are: Farmers and stockmen 117, mechanics 5, contractors 3, widows 17, druggists 4, railroad officials 3, merchants 58, lawyers 26, dentists 1, blacksmiths 3, doctors 14, teachers 4, engineers 4, bookkeepers 2, office holders 8, bankers 9, postmasters 2, real estate dealers 6, hotel keepers 1, shoemakers 1, ministers 2, cotton buyers 1, barbers 1, ginners 4, saloon keepers 1, superintendent

of mills 2, editors 4, carpenters 1, wholesale oil dealers 1; miscellaneous: salesmen, insurance agents, foreman, capitalists, miners, plantation managers, etc.

Courses of Study.—The object in the minds of those who founded this College was to furnish an opportunity to the young men of the State to secure a thorough technological or industrial training who should take part in directing and building up the industrial interests of the State. For some years this institution, like other agricultural and mechanical colleges of the country, for various reasons, failed to confine its energies exclusively to the carrying out of this mission. In the first place, the field of work was comparatively new and people generally did not realize the value of industrial training, and did not know just what should constitute it. It was difficult to secure men well trained to teach agriculture especially, nor was adequate provision made for teaching the subject, either in the way of laboratory and research facilities or of teaching and investigating officers. Within the last few years this institution has committed itself definitely to the carrying out of the exact intention of its founders. All general courses leading to degrees have been eliminated. Such subjects as Greek have been taken out of the courses entirely. Latin is retained merely as an optional study so that those who desire a more extended foundation for various scientific lines of work may receive training in Latin, if they desire it. Every student who now enters the College is required, both by the policy of the institution and by the law of the State, to register for an industrial course. It is probable that this is the only State institution of the kind which has adopted this definite policy. It was this feature in particular which led the Secretary of Agriculture, the Honorable James Wilson, to say that this institution was more nearly fulfilling its mission than any other similar institution in the United States.

Not only has the College committed itself to this policy, but it has recently revised its courses of study to insure the carrying out of the policy in the fullest possible degree. It has strengthened and enriched each of its courses of study. It now offers four-year courses leading to the degree of Bachelor of Science in the following lines: A four-year course leading to the degree of Bachelor of Science in Civil Engineering, in Mechanical Engineering, in Electrical Engineering, in Textile Engineering, and in Agriculture, with special emphasis either in Farm Husbandry, in Plant Husbandry or Horticulture, and in Animal Husbandry and Dairying. The foundations are also laid for training in Architecture. In the near future it is thought that it will be possible to offer a course leading to the degree of Bachelor of Science in Chemical Engineering. This latter course would offer an opportunity to young men to qualify themselves for expert work in a variety of directions; for instance, in the rice industry, the cotton seed oil industry, etc.

Enrollment by Courses.—During the past session 107 students were taking Agricultural courses, 94 Civil Engineering, 41 Mechanical Engineering, 7 Electrical Engineering, 122 the Freshman Engineering, which is the same for all courses, 4 Elective Engineering courses, and 1 a special course, and 2 graduate courses. The coming

session the Electrical Engineering course will show a considerable gain, and it is probable that this course, which was only definitely inaugurated last year, will show three or four graduates, owing to the fact that a number of students in other courses, especially the Mechanical Engineering course which furnishes the foundation for Electrical Engineering, will transfer to the Electrical Engineering course. At present the Civil Engineering course shows a larger enrollment of students than any other single course.

Special Work in Agriculture.—In addition to the regular four-years courses in Agriculture the department of Agriculture offers special work to students who are able to profit by it, and a ten weeks winter course for any young man who cares to come here and avail himself of the opportunity. This course begins in January and runs through the first part of March. Quite a number of students come here each year to take this course. The limited dormitory facilities make it impossible for the College to take care of a large number of such students. In some of the western agricultural colleges three or four hundred young men attend the short course each year.

The Faculty, Changes and Additions.—There have been comparatively few important changes in the Faculty. Prof. W. D. Gibbs, Dean of the Department of Agriculture, was elected President of the New Hampshire Agricultural College last summer with a large increase in salary. His place was filled by the selection of Prof. John A. Craig, one of the foremost authorities of the country on live stock. Prof. H. Ness resigned the chair of Botany. His place was filled by the election of Dr. O. M. Ball of Virginia. Dr. Ball was given the title of Professor of Botany and Mycology. Prof. Spence was transferred from the Department of Physics to the Department of Civil Engineering with the title of Associate Professor of Civil Engineering. The Department of Physics and Electrical Engineering was created and Dr. N. H. Brown of Tennessee was elected to the professorship. Prof. W. B. Philpott resigned from the professorship of English. Associate Professor C. P. Fountain was placed in charge of the work. Mr. Wilmon Newell, Assistant in Entomology, was elected Entomologist in Georgia, and subsequently promoted to the position of State Entomologist. His position was filled by the election of L. H. Scholl of Comal County, Texas. Mr. E. W. Kerr, Assistant in Mechanical Engineering, accepted a position in Purdue University, Indiana, and entered upon graduate work there. His position was filled by the election of Mr. W. G. Drummond. Prof. A. L. Banks of the Department of Mathematics was elected head of the Department of Mathematics in the Girls Industrial College at Denton. His place was filled by the election of Prof. T. P. Junkin, Superintendent of Schools at Cuero. Prof. B. C. Pittuck, Agriculturist, was elected Associate Professor of Agriculture in the Louisiana A. and M. College. Prof. F. S. Johnston of the Department of Agriculture was assigned his work in addition to the regular work in agriculture.

Mr. John A. Lomax of Parker County, Texas, formerly Registrar of the University of Texas, was elected instructor in English. Mr. G. C. Embry of Waxahachie, Texas, was elected instructor in English. Capt

F. P. Avery, Commandant of Cadets, was relieved by the order of the War Department; Capt. Herbert H. Sargent was detailed to succeed him. Mr. S. E. Gideon, who formerly held a position in the Mechanical Engineering department, and who was absent from the College for a time as Supervisor of Manual Training in Columbus, Ga., was elected instructor in Drawing. Prof. P. S. Tilson was transferred from the position of Associate Professor of Chemistry to the position of Assistant State Chemist. Mr. J. K. Robertson succeeded Mr. S. A. McHenry as Superintendent of the Beeville Station, and Mr. W. S. Hotchkiss succeeded Dr. E. P. Stiles as Superintendent of the Troupe Station.

In accordance with legislative action, the following new positions were created: Associate Professorship of Animal Husbandry, filled by the selection of Prof. F. R. Marshall; Instructorship in Industrial Chemistry and Assistant Chemist, filled by the selection of Dr. G. S. Fraps of North Carolina; Instructorship in Veterinary Science, filled by the selection of Dr. John H. Rietz; Directorship of Farmers' Institutes, filled by the selection of Prof. J. W. Carson, a graduate of this College; Instructor in Entomology, filled by the selection of Prof. A. F. Conradi. Prof. R. L. Bennett from Alabama, formerly Director of Experiment Stations in Arkansas, was made lecturer on cotton and cotton specialist to the Experiment Station.

Affiliated Schools.—The College authorities have taken steps to bring the College into touch with the schools of the State. We now have established relations with about 150 schools scattered through the different sections of the State. The graduates of these schools are admitted to the College on presentation of their diplomas. Only a beginning has been made in this work. A system of visitation ought to be provided by the College. Each of the schools should be visited yearly by members of the College Faculty, who should establish friendly relations with the teachers and try to interest the graduating classes in the College. Furthermore, we should each year send to each of the schools all the College literature, such as the student publications, especially the annual and the College paper.

Agriculture in the Schools.—It has been demonstrated that the elements of agriculture, including live stock, farm crops, and horticulture, not to mention nature study, can be successfully taught in good country high schools. To make this teaching efficient it is desirable that country schools should consolidate. This would be a vast gain in every way. It would result in larger schools with good buildings and equipment, in charge of competent teachers. The College must do what it can to lay the foundations for work in agriculture in the schools. It is prepared to turn out graduates who can teach agricultural subjects in a competent manner, and it is prepared to offer instruction in these subjects to men who engage in teaching. It is only necessary for the trustees of the schools to interest themselves in the matter and to appropriate funds. A vast majority of our people are engaged in agriculture, and yet the schools furnish little opportunity for young men to receive instruction in subjects related to the life which they expect to follow. The Legislature might do some-

thing to stimulate the movement by making an appropriation of fifteen or twenty thousand dollars, a percentage of which to be given to any school which would make an additional appropriation. This was done by the last Legislature to stimulate the teaching of manual training.

Manual Training in the Schools.—A number of schools have already made arrangements for the teaching of Manual Training. It is unnecessary at this time to emphasize the importance of this. I merely desire to point out that the Mechanical Engineering and Drawing departments here, which have seven well trained instructors, can train students who can teach these subjects, and can also furnish training to men who engage in teaching. In the two departments mentioned the College has instructors who have received special training in Manual Training schools.

ENGINEERING DEPARTMENTS.

Scope of the Work.—As already stated, the College offers courses in Civil Engineering, in Mechanical Engineering, in Electrical Engineering and in Textile Engineering. In these departments combined the College has the following teaching force: Professor of Civil Engineering, Associate Professor of Civil Engineering, Professor of Mechanical Engineering, Associate Professor of Mechanical Engineering, Instructor in Iron Work, Instructor in Wood Work, Professor of Physics and Electrical Engineering, Professor of Drawing, and two Instructors in Drawing. Of course, all the related instruction, such as that in Mathematics, Physics, English, Economics, Chemistry, etc., is provided.

Civil Engineering.—The work in Civil Engineering during the past session made decided progress. This was due in considerable measure to the fact that an efficient Associate Professor, Prof. D. W. Spence, was added to the department. The additional teaching force made it possible to handle the classes and the field and laboratory work in smaller sections. The technical work of the department includes plane surveying and leveling, city and topographic surveying, railroad engineering, highway construction and city pavements, mechanics of materials, stresses in roofs and bridges, bridge and structural design, graphic statics, hydraulics, irrigation engineering and land drainage, masonry structures, sanitary engineering, and contracts and specifications. A fair appropriation was made to this department for additional equipment. It will be expended by the end of next session, and will result in still further improving the instruction.

Mechanical Engineering.—The main improvements in the Mechanical Engineering department show themselves in the more advanced courses, especially in the laboratory work and in the improvement in forge work due to the installation of a thoroughly modern, up-to-date forge. This forge, costing approximately \$2000, was installed under the direction of Prof. Whitlock, and furnishes full opportunities to the classes in blacksmithing to secure thorough training. The

work of this department includes courses in power and power transmission, slide valve gears, indicator and steam engine economy, machine design, thermodynamics of the steam engine, and governors, pumps and pumping machinery, steam plants, carpentry, blacksmithing, wood turning, bench work in iron, machine work in iron, and engineering tests.

Electrical Engineering.—By reason of the fact that the College already had a four-years course in Mechanical Engineering, it became possible to offer a complete four-years course in Electrical Engineering without the expense that would have otherwise been necessary. Dr. N. H. Brown was put in charge of this department, and has succeeded in putting it well on its feet. Before Dr. Brown came here he had not only received thorough training in Electrical Engineering and Mechanical Engineering, but had had wide practical experience. He had served as superintendent of city electric railway lines in Chattanooga. The board made a considerable appropriation to this department for equipment, and much of it has already been added. In addition to the equipment that was on hand and what has been added, the department has the advantage of having a complete electric light and power plant on the College grounds, which can be used for instructional purposes. This plant, and the necessity for considerable wiring and rewiring, furnishes the students much opportunity for practice. This plant will be further extended so as to run the Textile department, and also, if possible, the Mechanical Engineering department and others by electricity. The technical work in Electrical Engineering includes courses in electrical measurements, electrical machinery, specification and contracts, electrical designing, electrical machinery and electrical power.

Textile Engineering.—The last Legislature made an appropriation of \$50,000 to erect a building and provide equipment for instruction in Textile Engineering. The main requisite for successful cotton manufacturing in Texas is a supply of thoroughly competent superintendents and foremen. In a comparatively few years the Textile department of the College should turn out men who should be able to work up to these higher positions. The Board of Directors accepted plans and specifications for the building prepared at a nominal charge by Mr. J. E. Sirrine, mill engineer, of Greenville, S. C. The building has been finished and is ready for the machinery. It is an exceedingly substantial and attractive, well constructed building, preserving the essential features of a regular factory. The principles of mill construction were not sacrificed to secure ornamentation. It was desired that the building should serve, as far as possible, as a model of mill construction. The attractive appearance of the building is due to the superior quality of the brick and wood work. The building, when thoroughly completed with lights and power, will have cost approximately \$30,000.

Before securing the machinery the Board of Directors decided to secure the services of a competent man for director. After investigating the conditions throughout the south, and receiving all the information possible, the board selected Prof. J. S. Wier of Mississippi to act as

director. Prof. Wier served for several years as instructor in carding and spinning in the textile school of the A. and M. College of Mississippi.

A committee consisting of Governor Jester, Prof. Wier and the President of the College, after carefully considering the machinery that would be needed for the first two years, made a trip to New England to interview the manufacturers and to secure the best possible terms on machinery. They found that the manufacturers had made large donations to many schools in the last few years, and that many of them felt that they could not make as liberal terms as they had in the past. However, after a full discussion with them most of them agreed to donate 50 per cent or more of the price of the machinery desired, and some of them made full donations of the machinery requested. It is not unlikely that the board will succeed in securing \$24,000 or \$25,000 worth of machinery for between \$10,000 and \$12,000. It is estimated that this amount of machinery will be sufficient to furnish instruction in all processes of cotton manufacture for the next two or three years.

Owing to the fact that the Textile Engineering course is very similar to the Mechanical Engineering course for two years, students can enter upon this work at once, and even advanced students can receive technical instruction beginning with next session, especially in the locating and the erecting of the machinery, which forms an important part of a superintendent's duties.

The work in the Textile school will cover a special study of cotton production and physical properties of cotton, mixing, picker room work, carding, drawing, combing, roving, spinning, warp preparation, spooling and warping, study of the power loom, designing, and textile chemistry, together with the organization and operation of mills.

AGRICULTURAL DEPARTMENTS.

The Divisions of Agricultural Work.—The Agricultural work at the College is divided into three main divisions, the work of instruction, the experimental work, and the farmers institute work.

The Work of Instruction.—The work of instruction is done in the following departments: Department of farm husbandry, covering instruction in farm crops, farm equipment, soils, irrigation and drainage, farm machinery, and history of agriculture; department of plant husbandry, covering courses in elements of horticulture, nursery methods, truck gardening, orchards, plant breeding, spaying, pomology, green houses, landscape gardening, forestry, etc.; department of veterinary science, covering courses in physiology of domestic animals, comparative anatomy, vertebrate histology, contagious and infectious diseases of animals, noncontagious diseases of animals, surgical diseases and operations, and parasites; and the department of animal husbandry and dairy husbandry, covering courses in judging market classes of cattle and sheep, horses and swine; judging breed types of cattle and sheep, horses and swine, dairying, breeding of live stock, and feeding of live stock. Instruction is also given to agricultural students in agricultural chemistry, in the department of chemistry, and in economic entomology and api-

culture, in the department of entomology. As has been pointed out, not only are regular four-year courses offered in these fields, but also special courses and a short winter course for actual farmers.

Equipment.—Large additions have been made to the equipment of the various agricultural departments. A complete modern soil physics laboratory has been installed by the department of farm husbandry. It is probably the only well equipped soil physics laboratory in the south. Facilities are furnished for making all sorts of mechanical analyses of soils. In the department of animal husbandry additions have been made to the creamery, and some pure bred hogs, sheep and cattle have been purchased for instructional and experimental purposes. A dairy barn, with stalls for more than 100 dairy cattle, with two large silos, and with a large space for forage, has been erected, and is practically ready for use. In the department of veterinary science a laboratory for instructional purposes has been equipped. The department of horticulture is planning a modern horticultural laboratory.

Barns, Fences and Laborers' Houses.—Perhaps the greatest single improvement at the College has been made in the appearance of the barns, fences, and outhouses. All the old dilapidated sheds and fences have been removed. The lots have been systematically planned and fenced with woven wire and cypress posts and painted. The laborers' cottages have been arranged to themselves and have been repaired and painted. The old mule barn has been put in a thorough state of repair, and the old dairy barn has been painted and will probably be arranged inside so that it may be used for an implement barn. The roads have been laid out and are being graded. The director has planned to have the entire farm surveyed and arranged in plots so that a careful record can be kept of the results each year. An attempt will be made during the course of the next few years to improve the fertility of the soil by every possible means.

The Dairy Herd.—When Prof. Marshall took charge of the dairy herd he found it in a somewhat neglected condition. No careful registry had been kept of the cows. He has taken this matter up systematically, securing all the available registries of the cows, and separating these from those whose registry he did not know. He will keep a careful record of the product and the cost of producing it.

There is no question but that the agricultural departments are now in good condition and are capable of doing high grade work. In order to secure what has been done, further additions must be made to the equipment and to the force of instructors from time to time.

Experiment Stations.—The experiment station work is divided into that of research and of furnishing the results to the people of the State in bulletins, of answering inquiries, and of stimulating agriculture by every possible method. The reports of the director and of the various departments will show in detail the experiments that have been finished, those under way, and the bulletins that have been prepared, and of those in course of preparation. I urge that careful attention be given to these departmental reports.

The department of veterinary science has continued its work with Texas fever and has made a special inquiry into the causes of blind staggers with a view to seeing if some remedy might not be discovered. This work will be continued. Much attention has been given to various contagious and infectious diseases.

The chemical division published bulletins on commercial fertilizers, commercial poisons and insecticides, on the manufacture of cane syrup, and on the composition of Texas cotton seed meal. A bulletin on the composition of rice by-products is ready for publication. Press bulletins were issued on blackstrap molasses as stock feed, on the composition of rice by-products, and on fertilizer receipts. The division is engaged in analyzing typical Texas soils with a view of arriving at definite conclusions as to the fertilizers needed on different types.

The division of horticulture has conducted a large number of experiments during the last two years, such as variety tests with all sorts of truck crops, irrigated and not irrigated, and a great variety of fruit experiments. Experiments were made with 290 varieties of vegetables in the spring of 1904, with 45 varieties of flowers, 45 varieties of grapes, and fertilizer tests were made with potatoes, tomatoes, and musk melons in the spring of 1904. A young variety peach orchard was started, and two acres were planted in peach trees for the purpose of deciding the effect of the growing of the different crops, such as corn, cotton, peanuts, etc., among the trees. A plum orchard, including 37 varieties, was planted, a pecan orchard of 17 varieties, and also a pear orchard of 75 trees.

The division of animal husbandry has carried on quite a considerable experiment with stock feeding. The agriculturist to the station, Prof. Johnston, after conference with the director, moved the main experiment field across the railroad from the College towards Bryan. This field of more than 30 acres was carefully surveyed and divided into plats each containing exactly one-half acre, 90 feet in width and 240 feet in length. Between each plat, running lengthwise, there is a 12-foot roadway. The plats themselves are laid out in acre sections with an 8-foot space between each half acre. Experiments will be made with varieties of corn, depths of breaking land for corn, depth and frequency of cultivation for corn, thickness for planting corn, and a series of rotation experiments, covering 2, 3 and 5 years, and also experiments for testing different kinds of forage crops. Results of the work for this year on this farm are highly encouraging, and show the value of careful preparation, especially for the securing and preserving of moisture. On land which was exceedingly poor it is likely that an average of 25 or more bushels to the acre will be secured without any fertilizer whatever. Fertilizers were not used this year because it was desired to secure a basis to start from. Regular fertilizer tests will be made hereafter, and checked with the yield this year.

Furthermore, the members of the department of agriculture and experiment station have, at every opportunity, taken part in the farmers institute work of the State, and have written articles for the technical papers as well as for the daily press.

Mailing List and Bulletins.—The regular mailing list has been extended until it now reaches approximately 20,000. It is indexed so that the name of any farmer may be found in a few seconds. Bulletins are issued as experiments are completed. Farmers sometimes wonder why more bulletins are not received. They do not realize that the station sends out bulletins only after experiments have been completed and the results classified and written up. It sometimes takes several years to complete a given experiment.

Correspondence.—Not the least important service which the College renders to the State is that of answering inquiries made by men of all classes. The department of veterinary science has answered more than a thousand such inquiries, that of entomology approximately three thousand; the department of horticulture has answered a great many, and it would be difficult to estimate the number that the director of stations has answered.

The work of the experiment station has been hampered by lack of funds. Not only has there not been enough money available for the experiments which the station desired to carry on, but there has not been enough for the printing of the bulletins prepared.

Sub-stations.—The work of the sub-stations has progressed satisfactorily. We now have thoroughly good men in charge of both the stations. I would refer you to the report of the departments concerned with these stations, and especially to the report of the director, as well as to the reports of the superintendents of the stations for the details of the experiments.

Co-operative Work.—The experiment station has not only undertaken co-operative work with farmers in different parts of the State, but also with the Federal Department of Agriculture. As a result of a conference with the authorities of the Federal Department, \$500 were placed at the disposal of the College for investigation of cotton rust in Texas. This work will be under the general charge and direction of Prof. R. L. Bennett, cotton specialist, and Prof. O. M. Ball, botanist. The department also placed at the disposal of the College \$1500 for the expenses of conducting experiments in cotton breeding, and agreed to take care of the salary of the expert in charge of these experiments. Prof. Bennett is charged with these cotton breeding experiments, and has located stations on the College grounds, in the Brazos bottom, near Waxahachie, near San Angelo and near Quanah, Texas. These experiments are directed to the study of early varieties and early maturing cotton, and of drouth resisting cotton. Careful attention is given to the effect of fertilizers in maturing cotton early. It is believed that important results will be secured. In due time these experiments will be written up and published. The department also made provision for co-operative farmers institute work, and work in entomology. This will be referred to under these heads.

Farmers Institutes.—The last Legislature made provision for the salary of a director of farmers institutes. The Board of Directors set aside

\$1200 for the expense of conducting the work. This amount was by no means sufficient, but it was as much as could be spared. Soon after the work was organized in connection with the College, the Federal Department of Agriculture agreed to place at the disposal of the College \$2500 for extending this work. Prof. J. W. Carson was placed in charge. He has bent his energies to the work of organizing new institutes and of keeping in touch with institutes already organized. He has enlisted the support and hearty co-operation of a number of railroads of the State, especially of the Southern Pacific lines, including particularly the Houston & Texas Central, Houston East & West Texas, the Santa Fe, Missouri, Kansas & Texas, the Frisco, Fort Worth & Denver City, and the International & Great Northern and their industrial agents. These railroads have furnished free transportation, and in many cases have done the advertising. The State owes a great deal to these roads for their efforts to stimulate agriculture. The director enlisted the aid of the county officials and of many farmers in every section. The press of the State has lent assistance through its advocacy of modern agricultural methods, through its reports of meetings and its free advertising. During the past session the department organized 70 new institutes and held 150 altogether.

The Federal Department of Agriculture, as has been stated allowed the College \$2500 for extending this work. By means of this the service of a number of able farmers was secured. These included John S. Kerr of Sherman, R. E. Smith of Sherman, H. E. Singleton of McKinney, W. J. Duffel of West, Tom Frazier of Morgan, and J. S. Davis of Waxahachie. Mr. E. W. Kirkpatrick also rendered service without compensation. The attendance at these meetings varied from 15 or 20 to 200 or 300. It is probable that altogether ten or fifteen thousand people were directly reached by these meetings, and many more were reached indirectly. Every agricultural subject of special interest, such as the new cotton cultural methods, cotton breeding, fertilizing, and cotton insects, cattle feeding, hog raising, fruit growing, truck farming, agricultural education, etc., were discussed. I believe that no more important work than this can be done for the State by the College. I would refer you to the report of the director for the details of the work.

Farmers Congress.—As usual the farmers congress has held its meetings at the College during the last two years. From a thousand to twelve hundred farmers have attended the sessions. It is believed that these meetings have resulted in good, not only to the farmers, but also to the College.

SPECIAL LEGISLATIVE APPROPRIATIONS.

Barns and Fences.—The appropriation of \$10,000, allowed by the Legislature for barns and fences, has been expended. A model dairy barn has been erected capable of providing stall room for about 130 cows. The barn has special stalls for bulls, feed rooms, and two large silos, each capable of holding enough silage to feed 100 cows for four months; and a substantial iron fence has been placed across the front of the campus. This fence is in keeping with the character of the institution, and adds much to its appearance.

Cottages.—The appropriation of \$10,000 for cottages was expended in the erection of three laborers' cottages, and of three substantial, well arranged cottages for professors. From this fund small stables, servant houses and cisterns were provided for four cottages.

Repairs.—An emergency appropriation of \$6030 was made by the Legislature to repair damage done by storm at the College last spring. This money was expended in re-roofing and repairing the interior of the mess hall, in repairing the roof and interior of the chapel, the roof of the porch of the chemical building, the roof of the mechanical engineering building, of Austin hall, of Foster hall, Gathright and the main building. All these buildings were more or less seriously damaged by the storm referred to.

The Legislature further made an appropriation of \$10,000 for ordinary repairs. This money was expended in replastering and repainting Gathright hall, Austin hall, Pfeuffer hall, partially replastering the main building, and in making the most urgent repairs in quite a number of college buildings.

Sewerage.—The appropriation of \$2000 made for extending the sewer system was carefully expended under the direction of the head of the Civil Engineering department and the Superintendent of Grounds. The College now has practically every building connected with a sewer system. It is not likely that further extensions will be needed in the course of the next few years.

Sanitary Arrangements.—The appropriation of \$2500 for sanitary arrangements was expended according to plans and specifications prepared by Prof. Giesecke, head of the drawing department, in equipping with modern sanitary fixtures the two large toilet rooms used by the corps of cadets. This appropriation made it possible to remedy one of the most serious evils that the College has had to deal with. These toilet rooms are now in good condition and should give satisfactory service for years.

Entomological Department.—The department of Entomology, with the increased force that was provided by the last Legislature, has been able to do a great deal of good work. Last session it carried on an experiment with 30 acres of cotton on the College grounds to test the efficiency of poisons, the value of picking up squares, and of wide or narrow rows, the destruction of cotton stalks, etc. A similar area was worked in the Brazos bottom to test early planting, early varieties, wide rows, etc. Co-operative experiments were carried on with farmers at Chappell Hill, Vienna and Hunter with the same objects in view. Special investigations were made of the green bug, which did such damage in wheat fields in 1901, 1902 and 1904, and also of the chinch bug, which damages corn considerably each season. In these two cases careful observations were made and a study of the life history with a view to getting data for discovering methods of control. Co-operative experiments were made with farmers at Sulphur Springs, Enloe, Celeste, Farmersville and Terrell.

Federal Entomological Co-operative Experiments.—The Federal Department of Agriculture placed at the disposal of the College \$1500 for the purpose of conducting special experiments on cotton insects other than the boll worm and boll weevil. Messrs. C. E. Sanborn and A. C. Lewis, competent entomologists, were employed out of this fund. Mr. Sanborn was stationed at the College and Mr. A. C. Lewis at Terrell. It will probably require several years to complete this work.

Other Work of the Department.—Not the least important part of the work of the department of entomology is the identification of insects for farmers and the answering of inquiries, and the furnishing of suggestions for the control of insects. The department received 2801 letters and sent out 2954, exclusive of cards and circulars. Sixteen circular letters, aggregating 3500 copies, were also mailed to farmers. In addition to this the department organized a corps of volunteer observers throughout the State for the purpose of keeping in touch with crop conditions and the damage by insects. One or more reliable men were selected in 119 counties. Blanks and return envelopes were furnished and inquiries answered. Much service was rendered and much information secured in this way.

I would direct your especial attention to the detailed report of the Entomologist.

The Science Departments.—The Department of Chemistry, through the appropriations that were made, has equipped several of the laboratories thoroughly for students' use. This department now has one of the best buildings and equipments in the State for work in chemistry. It is not only doing valuable work in agricultural chemistry, industrial chemistry, and general chemistry, but it is, under the State law, analyzing fertilizers sold in the State, and rendering much valuable service in this way to the farming interests. It undertakes in every way to see that farmers who use fertilizers are not imposed upon.

Botany and Mycology.—With means furnished out of the last appropriation the Department of Botany fitted up admirably a laboratory for its classes. The instructor has given part of his time to the subject of plant diseases in the State.

Drawing Department.—The work of the Drawing Department is on a very satisfactory basis. The drawing rooms have been equipped with satisfactory tables. The entire time of three instructors is given to this work, as all the students take work in drawing, and the classes are numerous and large.

General Subjects.—The work in all the essential subjects, such as English, History, Economics, Modern Languages, and Mathematics, has been exceedingly thorough and has shown much improvement in many ways, owing partly to increased facilities, and partly to the improvement in the quality of students. The work in English, which heretofore has not been satisfactory, made great strides, owing to the increased efficiency of the teaching staff. It would be difficult to say too much

for the energy and enthusiasm displayed by the members of the English department. The most noticeable improvement has been made in the methods of teaching. A thorough drill has been given in all the practical work of composition especially. Each of the instructors has spent practically the whole of every day in his class room or in his office in conference with students. Each student was required to report regularly to one of the instructors for consultation about his written work. In this way the principles presented in the class were directly impressed upon the students. Special attention was given to the simple and elementary parts of English instruction, such as spelling, punctuation, the paragraph, etc. The work of the other departments mentioned, which heretofore have been on a satisfactory basis, showed satisfactory improvement.

Military Department.—No department of the College has shown greater improvement over the preceding year than the Military department. It would be impossible to give too much credit to the Commandant of Cadets, Capt. H. H. Sargent, Second U. S. Cavalry, for the results he has secured. When he took charge of his duties the attitude of the corps was far from satisfactory and the discipline was lax. It was only a very short time before he made a very strong impression upon the student body and completely succeeded in revolutionizing their attitude and in establishing satisfactory discipline. By his justice, sound judgment, tact, proficiency as a military officer and teacher, and fine qualities as a man, he succeeded in winning not only the admiration, but the affection of the students. The result of his work was seen in the improvement throughout the entire institution. Practically speaking, the discipline of the institution was absolutely satisfactory. There were only a few cases that came to the attention of the Faculty or gave any serious concern. In the main the young men of the corps conducted themselves in a manly and gentlemanly manner.

Roads and Grounds.—The special appropriation of \$5000 for roads and grounds has not yet been expended. It was thought advisable to postpone this until much of the other work was out of the way. Much heavy hauling had to be done and all the labor and teams were engaged. The main effort now is being directed towards securing the proper materials for road construction. These are scarce in this community, and it is difficult to get them in remote sections of the State at a reasonable price.

Health Department.—I am glad to report that the health of the student body during the last two years was unusually good. This condition was due partly to the healthfulness of the campus, the freedom from unfavorable conditions, the natural healthy condition of the students, and the excellent care taken of them by the physician and nurse in charge. During the two years there were only two serious cases in the entire corps, one of appendicitis, which was successfully treated, and one of pneumonia, which was also successfully treated. During the session of 1902-03 there were only two cases of malaria in the student body. During the session of 1903-04 there were thirty-seven mild cases. The

physician in charge reports that the great majority of the students suffering from this malady were affected before coming to the College, and that the malady developed soon after their registration. He further reports that there has not been a case of malaria among the permanent residents of the campus during the past two years. There was an epidemic of mumps during the session of 1902-03, and an epidemic of measles during the session of 1903-04. There were forty-four cases of the former and twenty-seven cases of the latter. There was an aggregate of 157 hospital cases in 1902-03 and 307 during the session of 1903-04. These included cases of cold, headache, slight injuries, grip, measles and mumps. During the first session mentioned there were three thousand office consultations, and during the second there were five thousand. Many of these consultations were held for the purpose of preventing illness. The medical staff is to be congratulated on the uniformly favorable results of its treatment of cases.

NEEDS OF THE COLLEGE.

Much progress has been made in every department of the College during the past two years by reason of the liberal appropriations made by the Legislature. It is believed that adequate results have been obtained from the expenditure. In order that the College may keep pace with the growing demands of the farmers and other industrial classes in the State for industrial instruction, and for information of every description, unless the College is to lose ground, further generous provision will have to be made. The State is an empire in itself, possessing every variety of climate and industrial activity. It would be difficult to estimate the amount of good that might be done in stimulating the industry of the State if adequate provision were made for each line of activity represented in the College. Not only is there urgent demand for men trained as the College undertakes to train men, but there is an overwhelming demand on the part of industrial classes of the State, especially of the farmers, that the various College departments furnish solutions to the vast number of problems and information in every line of activity. Texas has never before witnessed such remarkable growth as she is now witnessing, and it would seem to be the part of economy to stimulate this along right lines, as far as means will permit. No argument is needed to enforce the determination of the people of the State to make every effort to advance industrial training and to render due assistance to the industrial classes. I fully believe that no other agency can more efficiently render this assistance than an institution organized as this one is, and the only limit to the assistance it can furnish is set by the finances. We have a well trained Faculty and corps of investigators, and they could do vastly more in every direction if they had the increased facilities. All their operations could be undertaken on a larger scale with much more than proportional returns for the investments. The following will represent what should be allowed to the College for the next two years, if the progress of the last two years is to be continued. Much more than what is asked for could be economically expended. The estimates have been kept as low as possible, in view of the temporary financial embarrassment. Still it is obvious that Texas

is an extremely wealthy State, and that she can really well afford to expend the money asked for, since it is in no wise money merely sunk and lost sight of, but an actual investment. Operations undertaken by means of such investment will save individuals the burden of undertaking them, and will undoubtedly result in vast saving. Government is nothing but co-operation, and such enterprises undertaken co-operatively are the most economical, relieving individuals from burdens which in the aggregate would far exceed the outlay involved in the co-operative undertaking.

Support and Maintenance.—It will be necessary during the next two years, in view of the growth of the activities of the College and of the expansion of the work in every direction, to make some additions to the force of instructors and investigators, and to the allowance for the running expenses of departments. The following additional instructors or investigators should be provided for: A Mycologist, an Instructor in Dairying, Cotton Specialist, an Instructor in Physics and Electrical Engineering, an Instructor in Carding and Spinning, an Instructor in Mathematics and two additional janitors. A Mycologist is as necessary in this State as an Entomologist. Thousands of dollars are lost annually by nurserymen and fruit and truck farmers by injury from plant diseases. The College gets hundreds of specimens annually to be identified, and hundreds of requests for information and methods of controlling diseases. It would take more than the time of one man to attend to this business efficiently.

The time of one man should be given exclusively to the dairy herd, in the experimental work of dairy production and of dairy manufacture, to say nothing of the instruction required. It would need little argument to show that in a State which has a cotton interest as large as that of any two or three other States, it would be the part of wisdom to have at the College a specialist who should make the matter of cotton breeding, and all sorts of problems connected with cotton production his sole work. The College possesses in Prof. Bennett a man who has no superior in the south in this work, and he has already shown results which would many times repay the expenditure involved. It would be the desire to have him give his entire time hereafter to this work in behalf of the College. He is now doing the work in co-operation with the Federal Department of Agriculture.

The increased provision for the work in Electrical Engineering and the consequent growth of the work in Physics and Electrical Engineering, have imposed on the present force more than it can adequately manage. An instructor in Physics and Electrical Engineering is, therefore, an absolute necessity.

All the students in the College are required to take mathematics. It will be impossible for the three instructors now in the department to take care of all the sections hereafter. An additional instructor will be needed.

There never have been enough janitors to take good care of all the buildings, and with the addition of new buildings it will be absolutely necessary to provide for these two janitors.

EQUIPMENT.

Before last year no additions of consequence had been made to the shop and laboratory equipment of the College for many years. The consequence was that the laboratories and shops were in a very unsatisfactory condition. The last Legislature made an appropriation of \$28,000 for such equipment. This enabled the College to add materially to the equipment in chemistry, veterinary science, mechanical engineering, civil engineering, electrical engineering, drawing, entomology, agriculture, horticulture, dairying and College furniture. The aim in expending this money was to equip some one laboratory or shop of each department thoroughly instead of trying to spread the money over all the needs of each department. To extend the equipment and increase the efficiency of the departments, an appropriation of \$26,500 for shop and laboratory equipment is urgently needed.

The Department of Chemistry will need a considerable sum with which to finish equipping the laboratories. The Department of Entomology will need further equipment in its insect collections, its laboratory cases and in its breeding plant.

The Department of Drawing will need further special equipment for its extended work.

The Civil Engineering department especially desires to add additional testing machinery to its laboratory.

In the Department of Mechanical Engineering a number of machines in the machine shops are out of date, and of course do not give satisfactory results in the instructional work.

Additions to the equipment in the Electrical Engineering and Textile Engineering will be indispensable to the requirements of the increased classes.

The Department of Agriculture earnestly desires to create a farm crops laboratory, and an appropriation will be required to provide additional desks and chairs for the section rooms. A minimum of \$26,500 would be necessary to meet the urgent needs of the different departments in the way of shop and laboratory equipment.

BUILDING EQUIPMENT.

Engineering Building.—A large number of students each year register for the various engineering courses given in the College. There were approximately 100 students taking Civil Engineering alone in the three upper classes last session. Last year the Civil Engineering department turned out twenty-three graduates. Forty-one were taking Mechanical Engineering in the three upper classes, and seven the new Electrical Engineering course. One hundred and twenty-two were taking the general Freshman Engineering course and four the Elective Engineering course. Next year especially the Electrical Engineering work will show a larger registration. The College has turned out large numbers of Engineering graduates, who are now distributed, in good positions, throughout the State. The Mechanical Engineering has a building, which will serve the purpose for some years. A building for Civil and Electrical Engineering is urgently needed. The departments are

cramped in their present quarters, and the room they occupy is needed for the other departments of the College. The last Legislature made an appropriation of \$25,000 for an Engineering building, but the Governor, on account of expected financial embarrassment, felt it his duty to cut the item out of the appropriations. At least \$40,000 should be appropriated for this building.

Hospital.—The present hospital is a frame two-story building of unsubstantial construction. In cold weather it is practically impossible to keep the building heated. When we have snow or driving rains, the walls do not furnish protection. The College Physician and the Commandant of Cadets unite in urging that provision be made for a modern brick hospital. It would take about \$25,000 to put up a thoroughly satisfactory hospital of sufficient size.

Botany and Entomology Laboratory.—The present hospital, if a new one were erected, would be used to great advantage as a laboratory for Botany, Mycology and Entomology. The Botany and Mycology laboratory is now in the Agricultural building, and the Agricultural staff needs the room occupied. The Entomological laboratories are in three small rooms in the main building, which are entirely inadequate. These rooms are needed for section rooms and offices.

Forcing House.—A large, well arranged forcing house is one of the invaluable parts of the equipment of every agricultural college. Such a house is used for plant and insect breeding, for the Departments of Horticulture, Mycology and Botany, Entomology and Agricultural Chemistry. Such a house should be constructed to give the largest possible amount of light, with glass roof and sides, and should be adequately heated. A house large enough for the departments mentioned could scarcely be erected for less than \$10,000.

Warehouse.—The College now has no place in which to store furniture or implements used by the janitor force, bedding, or any of the various supplies. Such things have to be placed in cramped quarters in building space which could be used to much better advantage. Such equipment is damaged by exposure, and being scattered through the buildings can not be properly cared for.

Bathing Facilities and Dressing Rooms.—A large gymnasium is not in itself a vital need in Texas, except so far as the bathing facilities, dressing rooms and lockers are concerned. The conditions are such here that students can take out-door exercise the year around. We do urgently need a building, however, which would provide comfortable bathing facilities for five or six hundred boys, and which would give room for individual lockers for each student. I can not conceive of anything that would add more to the comfort, convenience and health of the student body than such a building. It is probable that one which would serve the purpose for a while might be erected for \$18,000.

Repairs.—Before last year, for five or six years, only about \$5000 was expended at the College for repairs, notwithstanding the fact that there

were thirty or more buildings on the grounds, some of them very large, and all of them more or less in need of repairs. The consequence was that the building equipment had actually deteriorated not to speak of the barns and fences. An appropriation of \$10,000 made by the last Legislature enabled us to make some of the most urgent repairs. One per cent of the valuation of the property would certainly be a small amount to expend each year on repairs. This would call for an annual expenditure of \$5000. The first year, however, at least \$15,000 should be available, and \$10,000 the following year.

AGRICULTURAL EQUIPMENT.

Experiment Station Farm.—The experiment station is in urgent need of a barn for storing cotton and other crops from plots, implements, and seed, and of yards for feeding experiments. Five thousand dollars would provide the necessary arrangements.

Live Stock.—For experimental and instructional purposes it is obvious that the Agricultural College of the State needs a herd of pure bred stock. The College should have all the types of cows, horses, sheep, hogs, etc. The last Legislature made an appropriation of \$10,000 for this purpose, but the Governor in the discharge of his duty felt compelled to strike out the item. It is hoped that this item will be reinserted. The Farmers Congress of the State has repeatedly urged such appropriation. To this \$5000 should be added to provide sheds, quarters, paddocks, wind mills, for taking care of and pasturing the stock.

General Experiment Fund.—The College receives \$15,000 annually from the Hatch Federal fund for experimental work. This allows only a small amount to each of the seven or eight departments of research, for experiment, and by no means enough for the publication and mailing of bulletins. Our mailing list has grown so that a considerable financial burden is involved in publishing the bulletins in sufficient number and in mailing them. If the State would duplicate this fund, the same force could do six or eight times as much work and could publish and issue bulletins in adequate quantities. I earnestly urge an annual appropriation of \$15,000 as a general experiment fund on the part of the State. It looks as if the State might afford this much when the Federal government is so liberal in its general experimental work in the State.

Sub-stations.—The two sub-stations at Troupe and Beeville have done good work, and if it is the policy of the State to continue these, an appropriation of at least \$3000 a year should be made to the stations and the stations allowed to reinvest in experimental work the proceeds of the sale of products.

Entomology.—No department has more demands made upon it than that of Entomology. It goes without saying that to do the work required in a State as large as this, the department should have an adequate staff of investigators, adequate equipment and means for conducting insect work of every description. The item for the salaries of the

force of investigators, for equipment and for running expenses have been inserted under the proper heads. Attention is called to the recommendation of the Entomologist that a law be passed for controlling insect pests in the State, and that the machinery for operating the law should consist mainly of the College authorities, since it is believed that the best results would thereby be secured.

Veterinary Science.—No department of the College has rendered services which have been more generally recognized than the Veterinary department. Dr. Francis has done excellent work in his Texas fever experiments and experiments along other lines. He has for several years urged the provision of better facilities here in the way of barns for taking care of, experimenting with and giving instruction in, contagious and infectious diseases. It would require \$5000 to provide the necessary facilities. The last Legislature made an appropriation for this item but it was stricken out by the Governor. I earnestly hope that provision will be made for this work by the next Legislature.

Farmers Institutes.—It has been found by experience that no sort of agricultural work does more direct good to the State than the work of farmers institutes. It is the mission of this College not only to instruct students who come here, but to furnish all sorts of information to farmers through experiments, through bulletins, through visits to various communities of the State, to assist farmers in improving their methods, and in solving their problems. The most effective way of bringing the latest agricultural methods to the farmers is through actual appeals by experienced and well trained workers. I deem this work with the actual adult farming population of the State as the most important and the largest mission of the College. With a population having nearly 80 per cent interested directly in farming, with nineteen and a half million acres of improved land, nearly a billion dollars worth of farm property, and over 352,000 farmers, it does not seem extravagant to ask the Legislature to appropriate \$10,000 annually for this work. In carrying it on not only would the College experts render assistance, but the leading progressive farmers of the State would be asked to assist. They can do exceedingly valuable work. The amount asked for is needed not only to pay a fair compensation to those on the outside who render services as a part of the Institute staff, but to meet traveling expenses, hotel bills, printing and the publication of the most important addresses delivered, and of facts for the information of farmers. The College conducted about 150 institutes last year. These institutes are regularly organized, have a large and active membership, and are in direct touch with the College. They are enthusiastic in the matter and demand that this assistance shall be given. Other States have found the work of great value, and have made adequate appropriations. Illinois spends \$18,150, Michigan \$7500, Indiana \$10,000, Minnesota \$18,000, New York \$20,000, Ohio \$16,749, Pennsylvania \$15,000, Wisconsin \$12,000, and the comparatively poor States of North Dakota and West Virginia \$4000 each. Without the help of railroads and the press it would have been impossible for the College to hold a great part of the institute meetings of the past year. Their assistance will be invoked here-

after, and will be generously rendered, but the State should not be dependent on private individuals or corporations in carrying out a work of such vast consequence.

Financial Statement.—Accompanying this report will be found the reports of the heads of the departments and a complete itemized statement of all expenditures.

Under the rules of the Board of Directors the Treasurer of the College is the only officer who receives or pays out any money. The method of spending money is as follows:

Orders for supplies are made by the heads of departments and receipted bills in duplicate are attached to vouchers properly made out and approved and sworn to by the proper parties. These vouchers are then sent to the President of the Board of Directors for inspection and approval. After their return they are sent to the Comptroller at Austin who authorizes the Treasurer to draw warrants for the amount. Such warrants are received by the Treasurer and deposited in either one of the two banks in Bryan for collection. Checks are drawn against money so deposited for the amount of the bills rendered. Salary lists follow substantially the same course.

The Treasurer of the College is under bond to the President of the Board of Directors. Neither of the banks of Bryan nor any of its officers is on the bond of the Treasurer. On the contrary, the banks are under bond to the Board of Directors for money deposited with them.

The books of the Treasurer are at all times open to inspection. They are inspected from time to time by committees of the Board and are inspected annually by an expert. They have invariably been found to be correct. For several years they were inspected by Hon. Joe Lee Jamison. The last examination, which consumed thirty days, was made by Mr. J. C. Hollis of Fort Worth. This examination was made at the close of the fiscal year. The books were found to be correct.

There was a deficit in certain of the College funds other than funds appropriated by the Legislature, amounting at the date of the expert's report to \$16,939.02. This deficit in these funds was taken care of out of other funds of the College available at the time, and was therefore no deficit in the College accounts as a whole, and therefore no liability to any individual or institution.

The funds in which the deficit existed at the date of the report were as follows:

1. University fund (board expenses), \$1893.30.

Up to three or four years ago an appropriation out of the funds of the University, amounting to \$500 annually, was made to meet the expenses of the Board of Directors. For some reason unknown to me this item dropped out of the appropriations and for several years prior to 1902 there was no appropriation to cover these expenses.

2. Building account (commandant's cottage), \$1627.49.

During President Foster's administration, a commandant with a family was detailed for duty at the College. There was no cottage unoccupied. It became necessary to erect a cottage for the commandant's family and the amount indicated was expended.

3. Steam plant (fuel), \$984.30.

This expenditure represents wood used in dormitories in excess of the amount available in the subsistence fund.

4. Band account, \$6.18.

This represents an expenditure for music for the College band for which no appropriation had been made by the board.

5. Treasury account, \$12,427.75.

This account involves expenditures for the operation of the farm, for absolutely necessary repairs, for which no appropriation had been made, for salaries of janitors, plumbers, carpenters and other necessary laborers, for postage, for printing of reports, catalogues, etc., for such incidental expenditures as ordinances, expenses of the Farmers Congress, etc.

Not one of the items of expenditures could have been avoided without material sacrifice of the interests of the College. Up to the meeting of the last Legislature no adequate appropriations had ever been made for repairs. Much of the College property was very old and in a dilapidated condition. Four or five of the large brick residences were very near uninhabitable. All of the College buildings were demanding more or less considerable repairs to keep them from decaying. The Twenty-seventh Legislature had made an appropriation of \$2500 for repairs for two years. Practically all of this was expended on two buildings the first year. For the last year and a half there was nothing available out of legislative appropriations, and yet it was clearly the duty of the Board to protect State property if possible.

Furthermore no appropriation was available for absolutely necessary printing and postage.

I have said that these deficits in certain funds were taken care of out of the other available College funds. Since the date of the report of the expert and the beginning of the present fiscal year the Board of Directors out of the available funds have made provision for approximately \$13,000 of the total deficit in the funds indicated of \$16,939.02, very nearly extinguishing the deficit in these funds. The Board can doubtless take care of the remainder of the deficit, but in justice a special appropriation should be made, at least to cover the amount for the Board's expenses and the amount for the commandant's cottage.

Respectfully submitted,

D. F. HOUSTON,
President.

REPORTS OF DEPARTMENTS.

AGRICULTURAL DEPARTMENT.

REPORT OF DEAN OF AGRICULTURE AND DIRECTOR OF STATIONS.

David F. Houston, President Agricultural and Mechanical College:

DEAR SIR: I have the honor of submitting herewith my annual report regarding the work of the Division of Agriculture including that of the College, the Farm Department, the Farmers' Institutes and the Experiment Stations, together with the several reports of the heads of departments in the agricultural division of the College and Experiment Stations.

THE DIVISION OF AGRICULTURE.

The courses of instruction in the College of Agriculture have been changed some and also increased by the addition of the new course in animal husbandry. The instruction in this course has been given mainly by Prof. Marshall with such assistance as I could give him. The changes made in the four years course were made largely with the object of bringing the student at once in touch with the most practical sides of agriculture. To that end the stock judging division of Animal Husbandry and the most practical phases of Plant Husbandry have been made features of instruction in the freshman year. Also in the sophomore year the most useful and practical sides of the instruction in Farm, Plant and Animal Husbandry are made leading subjects in the course. The aim has been to give the student during the foundation years as freshman and sophomore, instruction of such a nature that he might make use of it in the practical world if he had to discontinue his course at that time, and also of such a character as to permit him to make a more intelligent selection of the course he might want to specialize in later. The changes made enable the student to specialize in the junior and senior years and so far the courses have been so developed that the student is able during these years to specialize in Plant, Farm and Animal Husbandry. This arrangement makes a course that is well rounded in any of these three directions, and at the same time gives the student a sound, practical training in all of them which will be of great service to him in making a success of his future.

New Courses.—During the past year the Short Course in Agriculture was continued with about the usual success. The course promises to

attract more attention, and I think it would be well to continue it and if possible expand it into a two-years course. The coming winter we will inaugurate a special course known as the Cotton Course. If this proves successful other short courses pertaining to special subjects will be established.

New Departments.—The Animal Husbandry Department is now well established and only needs the necessary equipment in the way of representative animals to make it thoroughly satisfactory. It is impossible to impart practical instruction in this department without good animals as subjects, and so far but very few of these—mostly those belonging to the Experiment Station—have been available. Representatives of the different breeds of cattle, sheep and swine, with some of the market classes of horses are a very necessary part of the equipment for the department.

The dairy industry of the State is full of great possibilities if it could be energetically developed. To do this the instruction in the College should be strengthened and a dairy department established. Much could be done of a practical nature for the development of this industry in the State, and such would increase the field of College usefulness. I would recommend that this department be established with a capable man to head it.

College Extension Work.—Within recent years unusual development has taken place in the extension of agricultural college work through Correspondence Schools, Teachers' Institutes, Normal Schools and Rural Schools. Most of the colleges have met this by making a special department for it with a capable person in charge to conduct it. From the number of inquiries received along this line the time seems ripe for the inauguration of such work in our State. We are met with the difficulty of lack of assistance. There are now so many demands on the Agricultural College Faculty that it would seem almost impossible for them to undertake pioneer work in this line. However, the need is so great that it shall be the aim of the department to render such assistance as it can to encourage this work. In the Thirteenth Annual Report of the State Superintendent of Public Instruction there appears the following statement:

"There is good ground to hope that the Agricultural and Mechanical College is about to enter upon a period of marked development and widened usefulness; and I venture to suggest to that institution the opportuneness at this juncture of what might be called agricultural college extension work, first in Teachers' Institutes and Normal Schools, and later among boys of rural schools."

The work in this direction has been started by the preparation of a bulletin by Mr. Kyle and Mr. Potts relative to the teaching of agriculture in the public schools. Taking advantage of the sentiment which now exists towards the agricultural college, it would seem advisable to make an appropriation for college extension work. We shall continue, however, to do all that we can to advance this work with our present facilities because of the prime importance to the State's welfare.

THE FARM.

Under any circumstances some of my time must necessarily be given to the management of the farm. Owing to changes which occurred, it was necessary for me to devote more attention to it than would otherwise have been necessary. Shortly after assuming my duties, on September 1, Mr. Carson, who was then superintendent of the farm, was placed in charge of the Farmers' Institutes, which of course prevented him giving any attention to the management of the farm. Prof. Bennett, who had been formerly Director of Institutes, however, very materially assisted me in this direction. Until he took up his new line of work in cotton investigation he devoted a great deal of his time to the management of the farm, but since he has filled the position of Cotton Specialist to the Experiment Station, it has been necessary for him to be relieved largely of these duties. Since that time we have been without a farm superintendent, which has necessarily compelled me to give more attention to this work than would otherwise have been necessary with this position properly filled. We need a capable farm superintendent, and I would suggest the securing of some one to fill this position at once. The position of farm superintendent is a hard one to fill, because of the relations which a person in this position must hold toward all the professors in the agricultural department, and also because of the fact that he must not only be well informed, but of all things, prove capable of efficiently handling the men under him.

As there is much to account in reference to the farm, and the changes inaugurated, it will not be necessary in this report to consider the past condition of the farm, only as far as it is necessary to understand the changes suggested and inaugurated.

Separation of Farm and Experiment Station.—One of the first things it seemed necessary to do was to try to bring about a separation of the Farm and Experiment Station interests so that the field of each might be more clearly defined and the work of both performed more successfully. It appears to have been the custom to allow the members of the Experiment Station staff to select such lands, anywhere, as might be most suitable for their work. That which was left was turned over to the farm. It is manifest that under such an arrangement the fields and plots would be very irregular, and there would be a general appearance of lack of organization and systematic arrangement. This was very unfair to the farm; consequently it seemed advisable to transfer the experimental plots and the experimental work which required the use of land, to the other side of the railroad track. This was necessary, not only for appearance, but also for the further fact that the farm had use for all of the land on the College side of the railroad track for the maintenance of its dairy herd and mules. All the experimental plots, with an exception or two, are now on the west side of the railroad, and it shall be our object to transfer all experimental work over there as soon as it can be done without interrupting work that is now under progress.

Management of Farm.—The location of the farm land is such that

there is but a small portion of College land on the west side of the railroad track. In seeking to devise some plan of farm management so as to conduct all phases of it in the most economical way, it seems best to consider that there is only about enough land on the College side of the track to efficiently provide for the dairy herd, the horses, mules and hogs. The most of the pasturage lying on the west side makes that naturally the best territory for the beef cattle, the sheep and the dry dairy cattle. It will be best to provide for the dairy cattle on this side of the track, as they have to be brought up morning and evening to be milked, and consequently that portion of the farm on the College side of the track should be given over to them. With the use of the two silos which are in the new barn, we can do this. It will be necessary for us to grow about twenty-five or thirty acres of sorghum, or some other material for silage. This amount will fill our two silos, and each of these will at least furnish all the green feed that will be required by fifty milking cows for six months. With the other feed that we can grow, we can easily take care of this herd and give them some pasturage, too, and in addition have pasturage for our mules, horses and hogs. But there will not be room for beef cattle, sheep and dry dairy cattle; consequently we must take care of them on the other side of the railroad track.

Development of Farm.—In seeking to develop the farm, an eye will be had singly to making it as productive as possible. This necessitates the careful spreading of manure, abundant use of green crops, the proper rotation of crops, and the feeding of such stock as the land can carry. Owing to the peculiar nature of the soil of the farm, which caused it to run together and become very much caked after rain, it seems important to use green crops very liberally; either to plow them under, or feed them off, so that as much humus as possible may be put into the soil. The soil needs something to hold its fertility, and on that account it will be our special object to add a great deal of feeding of stock during the winter months on green crops, as well as to make several careful applications of barnyard manure to the land. As it is now, the cultivated land of the farm lies mostly in one block, while the pasture land on the College side of the railroad track, as well as that on the other side, all lies in a solid block. It is our object to gradually change the pasture on this side of the track into cultivated land, and vice versa. On the cultivated land now we are taking steps towards putting a large portion of it in alfalfa. With this object in view, we are growing cow-peas quite extensively, so that the land may be best prepared for this clover. We will draw to the field all the barnyard manure as made, and distribute it over the present pasture field, so that when we come to break it up, it will be in good condition for the production of farm crops. I have not been able to find a record of the history of any of the farm fields, or whether any rotation has been followed, but as soon as we can find out the capacity of the different fields, what they are best suited for, and what crops we had better grow, we will then formulate a rotation which we shall try to adhere to.

Rearrangement of Fields.—In the carrying out of this work it has been necessary for us to rearrange some of the fences. Arranging some of the fences and building some others, so that the portion of the farm on this side of the railroad track is now divided into a cultivated portion and a pasture portion, each of which is in a solid block, has economized fencing.

Removal of Buildings.—One of the first things undertaken was the removal of the many small buildings immediately back of the Chemical building and in the neighborhood of the barn. Two stables belonging to Dr. Francis were moved over the hill, where some of his other buildings were located, so as to centralize this part of his equipment. The houses of the farm foreman and the dairy foreman were very badly placed, so that they, with the other dairy buildings, were moved to where the other farm houses were, and so are centralized. We have improved these buildings as far as we could, but the greatest improvement has been in getting them moved from their past location.

Rearrangement of Yards.—With the moving that had been done it was possible to rearrange the old yards by tearing down the unsightly fences which divided them and putting in the place of them a more modern fence. This has been built with cypress posts, put twenty feet apart. The corner posts are independent of the gate posts, and both are well braced. A fifty-inch Ellwood woven wire was used for the fence, and it will not only make a very strong and durable fence, but an exceedingly attractive one as well. I do not know of a better fence that could be pointed to as a durable and satisfactory fence in every way.

Roads.—Owing to the changes in moving the buildings and rearrangement of the yards, it has been necessary to open up a road, and also provide for two lanes. Considerable grading had to be done on the road, and also in the neighborhood of the new dairy barn. It was necessary to do this not only to add to appearance, but chiefly because of the fact that it was absolutely necessary to grade a considerable amount of dirt away from the barn before it would be dry enough to put the cattle into it.

Buildings.—The new dairy barn as it nears completion promises to be exceedingly satisfactory. Several changes had to be made from the original plans, but it seems that these were imperative for the usefulness of the building as well as necessary in some cases because no mention of them had been made in the specifications. It was necessary to provide doors for the box-stalls, and also mangers for them. In both of these we think we have adopted ideas which will prove exceedingly successful. It was also necessary to have a stairway to the upper floor. Owing to the change in the exact location of the barn it was necessary to put in windows where slats had been intended originally. These slats, however, would not be permissible, because the change in the location of the barn had put this side of it to the north. And then with these windows there had to be lifters to correspond with the other

side of the barn. The flooring of the barn in the change from cement to wood, was designed to be of 2x4 stuff placed on edge. This would be a very unsatisfactory floor for a barn. There is nothing which will rot wood quicker than the liquids which accumulate in a dairy barn, and such a floor is very hard to keep clean; consequently, it was thought advisable to cover this floor in the wing of the barn where it had already been put down with inch matched stuff. This has made a very satisfactory floor, and was put in under all the stalls. The other wing of the barn was changed to two-inch matched stuff, and this I consider a much more satisfactory floor than if it was placed on edge. The other change in silos was absolutely imperative, for it was out of the question to in any way strengthen the walls built in the way they were. We now have two very satisfactory silos, which will very materially increase the capacity of the farm, and I believe will also add to the productiveness of the dairy herd. The mule barn has been changed somewhat. On the east end stables have been put in for the use of the Experiment Station. These have been very satisfactorily built, and I believe will meet the requirements for that purpose. The barn has also been repainted, as it badly needed this, both for the sake of appearance and its own preservation. The old dairy barn remains yet as it was, but I would suggest that changes be made so as to use it. I can not conceive of any other use for it than to make it an implement and mule barn. I have had estimates made as to the possibility of moving it, but it seems that this can not be done successfully. It would hardly be advisable to tear it down, so on the whole the best way to make use of it would be to store away implements, seed and all other things that may be necessary to give storage room to, and also provide stables for our mules. We very badly need some place for implements, and this building is certainly the one which seems most available, and most centrally located. If we move our implements there it would also be necessary to move our mules, for it would make it very unhandy for the mules to be kept in one place and the implements in another. This barn can be fixed up so as to serve this purpose, and it would be very acceptable on account of its very accessible location. I believe that the removal of the old engine and engine house, which was located at the right of the entrance to this barn, materially improved it. At any rate it was a part of the building which was practically of no use whatever, and we were able to sell it to advantage. By removing the mules and all the implements to the old dairy barn, and making it a storage place for seed, fertilizers, and other things of this kind, we would have the present mule barn for horses entirely. We have in contemplation some experimental feeding with horses and mules, and this building would be exceedingly satisfactory for that purpose, as well as affording room for other stock which may not be conveniently kept in other places.

New Buildings Needed.—With the extension of our stock raising interests, and the securing of beef cattle and sheep, it will be necessary for us to make arrangements to properly take care of these. That means that we should have a barn for beef cattle, and the storage of such feed as may be necessary to keep near them. This need not be an extensive building in any sense, but one adapted in every way for

the keeping of beef cattle in a healthy condition. It is not necessary to provide much in the way of shelter, but it is imperative to have this, and also satisfactory arrangements for handling pure bred animals. Such a building could be designed solely with the idea in view of taking care of beef bulls, cows and calves, so that it could be made a very valuable building for this purpose. I believe we are on the right line in putting up special buildings for each class of stock rather than making one large building for holding them all, as has been done at other institutions. We need something in the way of sheds for our sheep. This may be a very cheap building, but should be well equipped with feeding racks, pens, dipping vats, shearing plant and all other essentials for conducting sheep husbandry on a profitable basis. We need, too, an office building for the farm superintendent. As it is now there is no place provided, and there is no place that would be central; consequently, I believe it would be advisable to build a neat and attractive two-room building in a location central to most of the other buildings, where the farm superintendent could keep his records and have an office where the men could report to him in going to and from work, and also where he could transact all business connected with the farm.

Farm Fences.—With the removal of the old fences, and in making yards about the place we have accumulated some posts and wire, which can be used to advantage in making fences in other parts of the farm. We should have some way of going to the stock yards at the railroad, and also reach our pastures on the other side of the railroad track without taking our stock down the most central drives of the College grounds. It will be easy to provide for this by running a lane south from the present yards about the barns as far as will enable it to be carried directly west past the apairy. From there it could follow just immediately back of the paddocks attached to the residences of the different professors. It seems that such a lane would be useful, too, for those delivering goods to the different residences on the campus. All these could be brought through this lane, and relieve the main drives of the College from extra traffic. We have some old posts and wire which would enable us to build a considerable portion of this lane, but we would need to have an allowance for grading and putting in gates.

Windmills.—Owing to the fact that a good many of our pastures were provided with water only by dirt tank systems, it seems necessary for us to provide them with windmills and zinc tanks to make them of use. By the direction of the health authorities we have had to cut all these dirt tanks, so that many of our pastures are without water, and are of very little use to us until we are able to put in windmills. There are three windmills and tanks needed. These pastures were formerly provided with dirt tanks, but now our stock have no access to water in them, so that unless some provision is made for them they will be practically of no use as pastures.

Farm Implements.—The farm implements at present in use on the farm are mostly worn out. It is absolutely necessary for us to take

this matter in hand at once and get rid of all the old implements and secure modern implements for the several purposes of the farm. They have reached such a stage that it will be poor economy to try to fix them up, and the same is largely true of the wagons that are at present on the farm. For this reason it would be advisable to make provision for replenishing the rolling stock of the farm so that it would at least be efficient and up to date.

THE FARMERS' INSTITUTES.

Since the Farmers' Institutes of the State have been placed under the direction of the College, it has required considerable thought and attention, not only to keep up the work which has been inaugurated, but also to organize and arrange for future work. The heaviest work is yet to come, for up to this time it has only been possible to organize institutes and in carrying this on, those who have done the work up to this time have been exceedingly efficient. Superintendent Carson has very successfully met the many calls that were made for the organization of institutes. The system is well under way, but just now it is imperatively demanded that some system be adopted whereby they may be successfully carried on in the future. It is one thing to merely organize an institute and see that the officers are properly elected, but it is another to provide for the successful operation of all the institutes that should be held over this State. There is no line of work in which effective organization and system may count for more than in developing the Farmers' Institutes of Texas; for the size of the State and the great diversity of its interests make it very necessary that a very complete and efficient system of organization is adopted. I beg leave to submit some suggestions along this line gathered from my experience both as a worker and as an outside observer of the institute systems of Wisconsin, Iowa, Minnesota, Illinois and those of the Canadian Provinces. I have had the privilege of working on the institute staff of these different States and Provinces and I shall try and cull from each those suggestions which I think might be successfully carried out in Texas.

There is one thing which must necessarily occupy an important place in our consideration of this subject, and that is, that each State should have a system which is peculiarly adapted for its conditions. The successful institute systems that have been organized in other sections have been based on this feature. There are marked differences between the systems of Minnesota, Wisconsin, Iowa, Illinois and the Canadian, but these are all traceable to difference in State conditions. After giving due consideration to all the circumstances, I believe that the Minnesota system, with the adoption of certain features of the Wisconsin plan of organization, will prove best for this State. Minnesota has conditions to confront which are very similar to those of our own State. The country was comparatively new, settled by a great many foreigners, and these facts made it necessary to adopt the plan which they have followed. The institute system there is under the direction of the Agricultural College. There is a superintendent, who gives his whole time to this work, with another man under him who might be called field man, who is continually arranging dates for institutes and does

much of the field work as contrasted with the office work of correspondence and other details. Under these men there are specialists, each giving his attention to a single subject; one being an authority on dairying, another on horses, another on swine, and another on farm management, and so on, thus equipping each department with a capable worker. These men form a corps which goes from one point to another in the State and hold meetings, which have been previously extensively advertised and arranged for. They get together and each man has his subject to discuss. There is an annual appropriation of \$13,000 for this work, and it is under the direction of Superintendent Gregg. In the Wisconsin system there is much that is similar to the Minnesota plan of organization, having a superintendent, but under him are five different conductors. The State is divided into circuits and each one of these conductors is given a specified circuit, and with him there are a couple of experts, who conduct the meetings with the employment of as much local talent as possible. In the Minnesota system no local talent is used, but it is a part of the plan of the Wisconsin system to secure the services of as many successful local men as possible. The meetings are located by the superintendent and the farm committee with the Board of Regents and the Agricultural Department. The State provides \$12,000 each year for holding these institutes and for publishing a farm bulletin, which has reached an edition of 60,000 copies. The Michigan system is very similar to the Wisconsin system. In Iowa, however, there is much more reliance on local talent, that being assisted chiefly by the professors and instructors from the agricultural college. In Canada the Wisconsin system is approached, although there is a difference somewhat in minor details. The Canada institute is made up of members who pay an initiation fee. The government duplicates the amount of money which is locally raised for the institute, and it also provides for the sending of speakers from the agricultural college as well as the attendance of other experts. The two most successful systems undoubtedly have been those of Minnesota and Wisconsin. Our State conditions here are not unlike those of Minnesota, but it would be out of the question for one corps of workers to attend all the institutes in this State. It would seem advisable then to adopt the best features of both the Wisconsin and Minnesota systems. I do not believe that in the present state of our development in this direction we can rely much on local talent so that it will be necessary to have four or five corps of workers, each in charge of a conductor, at work in different parts of the State at the same time. Then towards the close of the season a round-up or central institute should be held. The basis for this may vary. In Canada and in Illinois local institutes send delegates to this central institute, but in the case of Minnesota and Wisconsin the round-up institute is simply a bringing together of all the workers at a closing institute, held in some good farming section of the State. It would seem advisable in view of the fact that this meeting furnishes material for the annual report that the round-up institute be held in this way. To make the work of organization effective, in addition to having several corps of workers with the superintendent and the field man, it is necessary to follow an acceptable system in arranging for the institutes. Up to this time in this State the initiatory plans for the

institute have come from the business men of the town or most likely through the activity of the railroads. The latter have been very effective in arranging for institutes along their lines, and it has added much to the efficiency of the work that the college is able to do by having this preliminary work done by them. But for the effectiveness of the institute in the future it will be necessary to prearrange the dates of meetings, decide on what places they should be held at, and then arrange these into circuits so that they may be most economically attended by the different corps of workers. In the general experience with institutes there are some features which have developed which seem to contribute much to their success. In the matter of locating meetings, the plan most generally adopted is to have all meetings asked for by petitions. Brief notices are sent to press from the central office reminding the people that the petition should be filed. In this way a certain amount of local spirit, encouraged by the business men, is injected into the institute, and it prevents an institute being held where the people are not anxious for it, and that is one of the surest preventatives of failure. Those places asking for an institute are simply required to furnish a hall and light for the institute sessions, which generally extend over two days, and are five in number. The other expenses are met by the State. In locating the institutes in some systems the superintendent is guided wholly by the good that he thinks this institute will do in the section. He tries to arrange for his speakers so that they can give practical and accurate information along those lines that seem to promise most for the neighborhood in which the institute is held. He seeks to distribute the meetings over the State so that every farmer in the State will be able to reach at least one institute in the season. In some States the location of the meetings and the selections of the workers is governed by the board of directors of the college, and it would seem that something of this kind is necessary to make the wisest distribution of the funds to the usefulness of the work.

When the list of institutes has been arranged and dates assigned at the beginning of the season this list is sent to the press and being freely published by them the time of meeting is extensively advertised. A circular letter is also sent out about two months before the time of the institute meeting and these are followed with posters and programs sent out from the central office at least two weeks before the time of meeting so that it may be properly advertised. This is one of the most effective means of holding a successful institute. If it is well advertised there is generally no doubt of a good attendance. It has been found that the selection of workers is a feature that requires best thought and consideration, for if the institutes are to be useful in bringing about better methods in farming only those who have been successful in this work should be allowed to occupy the time of the institute. By having trained workers the conductor can take liberties with them that he could not with a stranger, allowing them only fifteen or twenty minutes to present their subject and then bringing out the other points which should be brought out by questions and discussion. With an efficient corps of workers and an abundance of it, it is very easy to make the institute interesting, and by having only capable men to present the subjects the usefulness of the institute becomes beyond question. As the

close of the institute season approaches arrangement should be made for the central or round-up institute. At this all the workers should come together so as to draw as large an attendance as possible from the farmers of the State. The report of this meeting can be made the basis for the annual report; as it would contain much useful information for the farmers of our State it should prove very valuable. In this report reliable advertisements of interest to farmers might be accepted for it will be found this plan will enable the report to be issued without any expense to the State. I feel satisfied that a system of this kind is absolutely necessary for the success of the institutes in Texas, and it is very imperative that some system be adopted at once so that the impetus which has already been given the movement may go on unchecked.

To make our system of Farmers' Institutes complete it would seem necessary to have the assistance of an office director, who would supplement the work of the present superintendent. It is beyond the powers of the superintendent to do the office work necessary as well as attend to the field work which is required to be done. The work is necessarily of such extent in this State that the field work alone would occupy the complete attention of one man, while the office work, the assigning of places and dates for institutes, advertising them and in every way arranging for the meetings would necessarily take all the time of an office director. Consequently, I would recommend the appointment of some one to fill this position. With such an equipment it would be possible for us to cover the field in a very satisfactory manner. In addition I would recommend the holding of a round-up institute at the College some time during the summer months, when the Farmers' Institute workers might most easily leave their farms for such a convention. Such a meeting will be very helpful to the Farmers' Institute workers, and I have no doubt but that it will be largely attended by the farmers of the State. In addition it would be of much benefit to the College and the Experiment Station, as it would help to bring the farmer prominently before the public and enable the Experiment Station to get its results before the farmers of the State in a very efficient way.

EXPERIMENT STATIONS.

Publications.—During the year July, 1903-04, we have published the following bulletins:

No. 67. "Commercial Fertilizers and Commercial Poisonous Insecticides," H. H. Harrington, Chemical Section.

No. 68. "The Manufacture of Cane Syrup," H. H. Harrington, Chemical Section.

No. 69. "Cabbage," B. C. Pittuck and S. A. McHenry, Agricultural Section.

No. 70. "The Composition of Texas Cottonseed Meal," H. H. Harrington and G. S. Fraps, Chemical Section.

No. 71. "Irish Potatoes," Edward C. Green, Horticultural Section.

During the year we sought to keep the farmers of our State informed on such matters as required direct attention. We endeavored to do this through issuing press bulletins which have been liberally published by

the State Press. The following publications of this kind have been issued during the past year:

No. 1. "Winter Work Against the Boll Weevil," E. Dwight Sanderson, Entomological Section.

No. 2. "Evading the Boll Weevil by New Seed, Varieties and Breeding," R. L. Bennett, Agricultural Section.

No. 3. "Cotton Culture to Escape Boll Weevil and Boll Worm," R. L. Bennett, Agricultural Section.

No. 4. "Fertilizer Recipes," G. S. Fraps, Chemical Section.

No. 5. "Onion Growing in Texas," Edward C. Green, Horticultural Section.

The following press bulletins were issued by the Entomological:

No. 4. "How to Combat the Mexican Cotton Boll Weevil in Summer and Fall," E. Dwight Sanderson.

No. 9. "Directions for Mailing Insects," E. Dwight Sanderson.

The Sub-Stations.—The sub-stations have both been very active in carrying on experimental work in the two lines of horticulture and truck growing. The Experiment Station at Beeville has given a great deal of its time to truck growing, as that industry seems to be especially suitable for the locality in which the station is located. At the Troupe station more attention has been given to fruit growing, as this portion of Texas is admirably suited for this industry. Both stations are making marked progress. For some time it was necessary to devote the greater portion of our funds and efforts to the equipment, but now as this approaches completion it is possible to do more experimental work. It may be said that up to this time these stations have not accomplished as much experimental work as they should, but a great deal of that is largely due to the fact that much had to be done in the way of making the equipment satisfactory for doing thorough work later. For the Beeville station a new engine for pumping water has been secured and the irrigation plant put in much better condition than formerly. At the Troupe station much clearing of land and arranging of field and other features of this kind has delayed the experimental work, but as these things have been accomplished it enables us to devote more attention to experimental lines in the future. I append the reports of both the superintendents of these stations.

Division of Funds.—In assigning funds to the different departments we tried to furnish each with enough to do work that will be helpful to the several industries of the State. There are so many industries to be represented in experimental work that when we come to divide up the Federal appropriation, it does not allow very much to each, yet each experimenter endeavors to do useful work for the industry which he represents. In line with this policy I would suggest the division of appropriation for 1904-05, as follows:

APPROPRIATIONS, 1904-1905.

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|--|-------------|
| Salaries | \$7,200.00 |
| Chemical | 427.50 |
| Horticulture and Mycology..... | 850.00 |
| Veterinary | 850.00 |
| Cotton | 200.00 |
| Agriculture | 850.00 |
| Animal Husbandry | 850.00 |
| Dairying | 200.00 |
| Station Library | 100.00 |
| Buildings and repairs | 720.00 |
| Publications | 1,800.00 |
| Traveling expenses | 200.00 |
| Postage, stationery and office supplies..... | 300.00 |
| Contingent | 452.50 |
| | <hr/> |
| | \$15,000.00 |

Future Work.—Several lines of experimental work have been established at this institution for some time, and while such are always inaugurating new lines of work, yet there is much which must be done in the way of duplication of results to make them more accurate. The divisions of Chemistry, Horticulture and Veterinary Science are among the older established divisions of experimental work, and while they are doing new work as occasion arises, yet some of the work of these divisions must necessarily be repetition of what had already been done before the results accomplished may be verified. In the Veterinary Department this is especially true where Dr. Francis has been working for several years with southern fever and has recently undertaken investigations regarding the disease of horses which is commonly known as blind staggers. Such work is exceedingly valuable, but it takes a long period of careful investigation to secure thoroughly reliable results, consequently, while we can not refer to such as showing marked evidence of progress, yet the value of the results is none the less apparent. In other lines such as Horticulture, quicker results may be obtained, and to the reader of reports much more progress may be apparent. These departments which I have referred to confine themselves largely to the determination of new problems which are continually arising. Among the special new lines of investigation I will mention that which has been undertaken with the cotton crop. Prof. R. L. Bennett, who is also special agent of the Washington Department of Agriculture, has this subject in charge and much useful work is being accomplished. During the coming year several bulletins consisting of entirely original matter will be published, which we expect to be of material assistance to the cotton grower. Investigations in live stock feeding have been expanded considerably. During the past year several experiments have been conducted in feeding steers and also in feeding hogs. It is our purpose to extend these investigations to include in time the feeding of colts and also of sheep. Several bulletins are in press from these

various departments and the coming year seems to promise us much in the way of original results that will be helpful to our farmers.

Changes Inaugurated.—We have tried with some success to separate the work of the Experiment Station as definitely as possible from that of the Agricultural College. I mean by this that we have not attempted to destroy the beneficial associations of the two, but we have sought to keep the accounts and the work of the two divisions as separate as possible so that they both might be most effective. To illustrate this idea, I may say that in the past the Experiment Station used any part of the College farm for experimental work. As a consequence various plots growing experimental crops were scattered over the farm, and change has been made to the extent that all experimental plots are now located in a body and the experimental work in feeding will also be conducted at the same location. Through this we are enabled to present our experimental work to those desiring to study it in a very concise and clear manner, and also enable the work to be carried on with greater facility.

Barn Needed.—To enable us to carry out this idea with success it is very necessary for us to have an experimental barn located at a point easily accessible for all the experiment workers. There is a fine site for a barn which could be used by the cotton specialist for the storage of cotton and other features of his work; by the agriculturist for the storage of the crops from the experimental plots, and by the Animal Husbandry Department for the storage of such feeds and other material that would be needed in experimental feeding. This building is very necessary and it would materially assist the effectiveness of these several departments in their work, and at the same time enable us to secure better results from the several lines of experimental work.

Acknowledgments.—In some lines of our work we have been materially assisted by many friends of the College and Station. In the Animal Husbandry Department the work has been greatly facilitated by the liberality of Mr. R. J. Kleberg, manager of the King ranches, Alice, Texas, and Capt. Jno. Tod, manager of Laureles ranch, Corpus Christi, Texas. In our experimental work in animal husbandry we have need of larger funds or more capital than any other department, for the reason that the stock have to be purchased and the feed also, making such experimental work expensive at the beginning, but when the stock is sold this fund is available again for more work. We have been greatly hampered in our feeding experiments because of the cost in original purchase of the animals needed. The gentlemen referred to were approached in regard to this, and both Mr. Kleberg and Capt. Tod very liberally allowed us to have the steers necessary for our feeding experiments at no original expense, as they agreed to wait for the purchase money until the steers had been sold. By the liberality of these gentlemen we have been able to carry on larger operations in feeding than have ever been accomplished at this station before, and through it we hope to do a great deal more work than has been accomplished in the past.

Extension.—Owing to the success of the two sub-stations which are already established, it would seem very advisable to attempt further development along this line. The State of Texas has such vast and varied resources that it is out of the question for any single station to properly assist these. The sub-station at Beeville has very materially helped the truck growing industry of that section, while the same has been the effect to the fruit growing interest through the work of the Troupe station. There are other interests just as important which need assistance, and I have especially in mind at this time the live stock interest. It would seem that it would be very necessary to have a feeding station for cattle, especially in that portion of the State where general farming and feeding of stock is of more importance than it is in the locality of the main station. By following the policy of establishing sub-stations it is not only possible to do better work, but it is also made much more effective because it is brought home to those who are most vitally interested. In this direction it would seem advisable to have a feeding station and a stock farm in connection with it at a point where feeders are easily obtainable and the feed necessary for fattening stock available. This means location within reasonable distance of Fort Worth in a good farm section. For the establishing of such a station we would need at least \$10,000, with an annual appropriation of \$5,000, to enable the work to be carried on effectually.

JOHN A. CRAIG,
Dean and Director.

DEPARTMENT OF ANIMAL HUSBANDRY AND DAIRYING.

To David F. Houston, President Agricultural and Mechanical College of Texas:

Since taking up the work of the Animal Husbandry Department of the College in October, the teaching of the regular classes has occupied a large part of the time. Owing to the fact that the classes had received but very little work in live stock in the term previous to my arrival, it was impossible to complete the prescribed work for that term in a satisfactory manner; this has caused somewhat of irregularity in the winter and spring terms. The work scheduled for the department was as follows: three lectures and one practice per week for the junior class and three lectures and one practice per week for the senior class throughout the entire year. During the first part of the year two practices per week were given, but owing to the student's time being so largely taken up with other work this could not be continued. In the junior class there were twenty-three students and three other students taking elective work. Four seniors took the fall term's work and during the winter and spring terms there were but the two who were taking the special Animal Husbandry course.

A serious handicap has been felt in the lack of sufficient numbers of animals fit to take before the classes for judging purposes. It is being more clearly demonstrated each year that the only possible way to properly prepare a student for a stockman's life is to so familiarize him with the qualities of superior animals that he becomes able to recognize undesirable characters even in high class animals and also to recognize and utilize desirable qualities in such low grade as it is sometimes necessary to handle. This makes it imperative for the College to maintain flocks and herds of a degree of excellence at least equal to the best within the borders of the State. This is necessary not only to furnish animals for exercise in judging and for inspection of visitors, but to give to our students practical lessons in the breeding, rearing and general management of improved stock. While the initial cost of such equipment is considerable it would not at present be nearly so great as a few years ago nor yet so high as it is likely to be a few years hence. When once established such herds are more nearly self-sustaining than any other part of the College equipment.

Three junior and two senior students were accompanied by myself on a visit to the Chicago International Live Stock Exposition during the first week in December. This show was selected as affording the best existing opportunity of seeing large numbers of superior animals in a short time. These students paid their own expenses, about \$50 each, and were agreed on their return that the money, though the result of hard labor, was well invested.

On January 14, eighteen students arrived for our regular ten weeks short course. To these students I gave four lectures per week on various phases of live stock and dairy work, as well as conducting with them a judging exercise four afternoons each week. This class did very satisfactory work and the only regret is that their number was so small. At best it is impossible to more than superficially discuss and instruct in the different subjects treated in the ten weeks course. Ten weeks is a longer time than most men actively engaged in farming can make it possible to stay at college. There is a general desire expressed by farmers in all parts of the State for an opportunity to visit the college and familiarize themselves with the work being done and receive such instructions as their time will permit them to remain for. In view of these conditions it would seem that our time and energies might be more useful and to a larger number in a course of two instead of ten weeks duration.

At the close of the short course most of its members, all of the senior class and most of the juniors, visited the Fort Worth Fat Stock Show. During the first one and a half days regular stock judging classes were held, using the animals kindly loaned by the exhibitors for the purpose.

Within the past few months a list of thirty agricultural papers in the south have been prepared. To these, short articles ready for publication, regarding the work of the department have been sent and replies received from the editors expressing their willingness to publish all such matter sent. A number of articles relative to the breeding of improved stock have been contributed to the State papers. The number of institutes attended has been limited on account of the amount of class work which necessitated my remaining at College. Senior stu-

dents in this department have prepared articles, based on their work done in class, which have been published by the papers to which they were submitted.

The class work for the coming year will be the same as scheduled for the year past with additional five hours per week for the freshman class, as provided for the revised course. In order to do justice to all students give proper attention to and report experiments in progress and to do a fair share of institute work further assistance is required for this department.

F. R. MARSHALL.

REPORT OF THE DEPARTMENT OF BOTANY AND MYCOLOGY.

Dr. David F. Houston, President Agricultural and Mechanical College of Texas:

SIR: In accordance with your request for a report on the condition and needs of the department under my charge, I have the honor to submit the following:

Upon taking charge of the department in September, 1903, I found the apparatus and material belonging to what had been two separate departments widely scattered and without any definite quarters. A large and pleasant room was soon provided, however, and the materials collected into the laboratory. This was next fitted up with substantial tables of approved design, giving working room for twenty students at a cost of about \$300. Each of these tables has been supplied with a compound microscope of standard quality, sets of dissecting instruments, reagent stands, hand lenses and other minor instruments requisite for work. The laboratory has been also supplied with water baths, paraffine baths, a sterilizer and various other pieces of apparatus for use by the students in general.

Conjointly with the Department of Agriculture a gas plant has been installed at a cost to this department of \$125. Together with the Department of Entomology, projection and photomicrographic apparatus has also been added.

The total value of new instruments (together with a small stock of chemical reagents), which have been added to the department during the past year is about \$800, the amount set aside for that purpose.

The work of building up the laboratory has been no small one, and has required much time and labor. Further, the herbarium belonging to the department was scattered and in poor condition, owing to the lack of facilities for its preservation. This has been remedied and the number of specimens increased as much as possible, the whole arranged and classified and a card catalogue made.

A large amount of time has been devoted to collecting data regarding the flora of the State, particularly the noxious and troublesome weeds;

to answering inquiries for information in regard to plant diseases, and in suggesting remedies for the same, and in the identification of the large number of plants sent here for that purpose.

Instruction has been given to classes in agriculture in the morphology, physiology, and in the systematic relation of plants. To the junior class, during the spring term, instruction has been given in the nature, cause and remedies of plant diseases due to various forms of plant life. The number of hours per week devoted to actual teaching by the instructor is now fifteen.

Since a knowledge of plant physiology and pathology is of fundamental importance to the progressive, practical agriculturist, the work has been, as far as possible, of a strictly practical aspect. Investigations have been carried on and are projected with the aim to be of practical benefit to various interests of the State. The department wishes to pursue these studies during the next years.

It is my desire also, sir, in the immediate future to extend the field of work done by the department to include a course in Forestry. The vast and lasting benefits which will accrue to the State from an intelligent conservation of the forest resources we now have, and which will arise from systematic and scientific propagation of forest trees in parts which are now devoid of such, will be apparent to all. This work should not be allowed to devolve upon others, but should be done by the institution to which it rightly belongs. In this connection it is desired to establish a botanical garden, which shall represent, as far as possible, both the forest and the herbal flora of the State. This need not be a matter of great expense, since it may be done by degrees.

I would invite your especial attention, sir, to the need of special and thorough work in mycology. In a territory so vast as Texas, where the agricultural and horticultural interests are so enormous and varied, the services of not one, but several, trained specialists would be of untold value. Letters are received daily by the department inclosing or forwarding specimens of the most diverse nature, and from every part of the State, each containing a demand for aid.

Allow me to suggest a few only of such matters as are demanding our immediate attention: Crown gall of the peach is very prevalent, and threatens destruction of the peach orchards; root rot of fruit and forest trees, cotton and vegetables is reported from many quarters; blight has almost annihilated pear culture; rust of cereals is everywhere present and even the new rice fields of the south are threatened with its attack.

During the last few years enormous investments have been made in fruit culture in this State. It is imperative that these industries be afforded protection as far as is possible. Therefore I deem it of urgent necessity that the working force of this department be increased by the services of one who can devote his entire time and energies to these matters. The State can point with pride to the results accomplished by the Department of Entomology of this College. The extraordinary and costly efforts now being made to control but one of the many insect pests which threatened destruction to our greatest industry, should make all keenly alive to the importance of vigilant and energetic warfare in the no less important field of fungus pests.

The work of this department can not satisfactorily be done by one man. As before mentioned, the instructor now devotes fifteen hours per week to the class room. This does not represent the actual time devoted to teaching, however, for much time must be given to the preparation and collection of material for each class, a duty which usually devolves upon an assistant. Since there is no assistant this must be done by the instructor, and there is, therefore, but little time for field work.

A further addition to the equipment is necessary in order not to negative what has already been done. A private laboratory is required where extended experimentation may be carried on without conflict with the use of the larger laboratory by the students. Exact work in physiology and pathology is rendered impossible through the lack of a green house, where conditions may be known and controlled, and where the proper material for the occasion may always be at hand. A small green house is indispensable. I estimate that a fairly good one, with heating apparatus, may be built for \$3000.

Apparatus for teaching and investigation along these lines is special and somewhat costly. No funds were available out of the recent appropriation for this purpose. I recommend that \$500 be set aside for the purchase of such instruments.

I further recommend the continuance of the allowance of \$300 yearly for the running expenses of the department. Also that the fund devoted to mycological work be increased to \$500.

The department is now fairly established. In my opinion not to allow the recommendations above noted would largely negative what has already been done.

Very respectfully yours,

O. M. BALL,
Professor of Botany and Mycology.

REPORT OF THE DEPARTMENT OF ENTOMOLOGY.

COLLEGE STATION, TEXAS, May 15, 1904.

Dr. D. F. Houston, President of the Agricultural and Mechanical College of Texas:

DEAR SIR: I beg to submit the following report of the work of the Department of Entomology and office of State Entomologist since October 1, 1902, when I assumed charge, together with an outline of future work proposed and recommendations for appropriations for equipment and maintenance.

INSTRUCTION.

During the past year instruction in Entomology has been given as follows:

To the Short Course in Agriculture, sixteen students; one lecture per week during the course.

To the Junior Agricultural Class, twenty-three students; three lectures per week and one practice period during the winter term.

Instruction in apiculture has been given to thirteen of the students of the Short Course in Agriculture, and two students are now taking special work in that subject, under Mr. Scholl.

We have endeavored to make this instruction of as much practical value to the students as possible, but owing to their lack of preparation much time has necessarily been devoted to the more scientific aspect of the subject, forming a basis for the practical application of the science. Under the revised course which will take effect in 1905 the students will receive training in Invertebrate Zoology by this department in the sophomore year, so that during the junior year the entire time can be devoted to strictly Economic Entomology.

INVESTIGATION AND EXPERIMENTS.

During the season of 1902, thirty acres of cotton were cultivated at the College for experiments with the Mexican Cotton Boll Weevil. These experiments involved the use of poisons, picking up the squares, the effect of wide and narrow rows, and the value of destruction of the cotton stalks immediately after picking in the fall. Owing to the exceedingly wet season the experiments were not as successful as might be desired, but many valuable points were secured. At the same time, similar acreage was cultivated under our direction upon a plantation on the Brazos River near the College, where the value of early planting, improved varieties, wide rows and thorough culture were fully demonstrated. Several co-operative experiments were also arranged with men at Chappell Hill, Vienna and Hunter, which further supported the above. A careful study of the life history and habits of the boll weevil was also made in the laboratory during the fall of 1903. Owing to the arrangement for co-operative work with the Division of Entomology of the United States Department of Agriculture upon cotton insects noted below, and in view of the fact that the life history and habits, and means of combating the boll weevil have been very thoroughly investigated by the assistants of the department, that they have ample funds for continuing these investigations, and that the Legislature failed to make any appropriation for carrying on the field work we proposed in connection with the boll weevil, it has seemed wise to spend more effort upon other insects affecting the cotton plant during the present season. We have, however, made experiments at the College and in the Brazos bottom with the use of poisons for the weevil and also experiments here and in South Texas concerning the value of the destruction of the stalks in the fall. The Southern grain louse or so-called "Green Bug" (*Toxoptera graminum*), which destroyed the wheat crop of North Texas in 1901, appeared in the spring of 1902, when it did but little damage, and again this year when the injury has been somewhat more serious, though by no means widespread. Observations concerning its life and habits and possible means of combating it have been made at various times, and it has received careful study in the laboratory. We have been unable to

secure its complete life history, but hope to do so during the present season and believe that such knowledge will enlighten us as to the best methods for its control. The chinch bug (*Blissus leucopterus*) is the most serious corn pest in North Texas, and in dry seasons accomplishes the ruination of the crop. The insect was studied last year and considerable information secured concerning its habits, which are quite different from those observed in the North, and during the present season we have arranged with five progressive farmers at Sulphur Springs, Enloe, Celeste, Farmersville and Terrell for experiments in the control of this pest by means of a system of destroying it upon trap crops. A number of fruit and truck insects have received considerable attention, many of these being hitherto unknown as of economic importance and their habits having been recorded for the first time. We have, however, been unable to seriously attack several of the most important insect problems of the trucker, owing to the work along other lines demanding attention. Under the appropriation made by the last Congress for the investigation of the boll weevil and the improvement of cotton culture, the Division of Entomology of the United States Department of Agriculture has placed in our charge the investigation of all the insects affecting the cotton plant exclusive of the boll weevil and boll worm. For this purpose the sum of \$1500 has been placed at our disposal. The writer and Mr. Conradi received nominal appointments from the department for this work, and we have employed under this authorization two other temporary assistants, Mr. C. E. Sanborn, M. S., recently of the University of Kansas, who assists us at the College with the rearing of cotton insects, particularly plant lice, and Mr. A. C. Lewis, recently assistant botanist of the Oklahoma Agricultural College and Experiment Station, who has been stationed at the demonstration farm of Mr. E. H. R. Green at Terrell, Texas. Mr. Green has generously given him office and green house space and has planted crops desired upon which to experiment. Mr. Lewis will thus be able to make a study of the insects of North Texas, both in the laboratory and field, and keep in touch with any outbreaks which may occur in that section. It will of course be impossible to complete this investigation the present season, as but little is known concerning many of the more important cotton insects, and the study of each of them requires as much work from an entomological standpoint, and in many cases more, as does the study of the boll weevil. It is to be hoped that arrangements may be made to continue this co-operation with the Department of Agriculture, and in case that is impossible it should be continued to the best of our ability. The expense of this work is now about evenly divided between the department and the College.

FARMERS' INSTITUTES AND LECTURES.

It has been my endeavor to be of as much service as possible by giving lectures at farmers' institutes and other farmers' meetings, both for their education and for my information as to their problems and how they may best be solved. During the period covered by this report some thirty-two audiences have been addressed, aggregating about 3500 persons. A memorandum of the meetings addressed is appended. In

the course of our investigations and lectures we have visited thirty-seven of the cotton-growing counties of the State and traveled nearly 20,000 miles.

MEMORANDUM 1.

Addresses by the Entomologist, October, 1902, to May, 1904.

1902, October.—Henderson, East Texas Fruit and Truck Growers Association.

1902, December.—Dallas, Cotton Boll Weevil Convention.

1902, December.—Galveston, Cotton Exchange.

1903, January 13.—Corsicana, Farmers' Institute.

1903, January 16.—Lufkin, East Texas Fruit and Truck Growers Association.

1903, January 17.—Farmers' Institute, Bryan.

1903, January 24.—Kaufman, Kaufman County Boll Weevil Convention.

1903, February 3.—Paris, Farmers' Institute.

1903, February 5.—Greenville, Farmers' Institute.

1903, February 6.—Terrell, Farmers' Institute.

1903, February 7.—Kaufman, Farmers' Institute.

1903, March 4.—Nacogdoches, East Texas Fruit Growers Association.

1903, March 9.—Farmersville, Farmers' Institute.

1903, June 19.—Steep Hollow, Brazos County, Farmers' Institute.

1903, June 20.—Grapeland, Farmers' Meeting.

1903, July 14.—College, Address before B. K. Association and Cotton Growers, Texas Farmers' Congress.

1903, August 17.—Palestine, Farmers' Meeting.

1903, October 24.—Kerens, Farmers' Meeting.

1903, November 6.—Dallas, Cotton Convention.

1903, November 11.—Canton, Farmers' Institute.

1903, November 12.—Kaufman, Farmers' Institute.

1903, November 13.—Fairfield, Farmers' Institute.

1903, November 14.—Groesbeck, Farmers' Meeting.

1903, November 21.—Athens, Farmers' Institute.

1903, December 1.—Greenville, Farmers' Institute.

1903, December 2.—Sulphur Springs, Farmers' Institute.

1903, December 3.—Pittsburg, Farmers' Institute.

1903, December 4.—Dangerfield, Farmers' Institute.

1903, December 10.—Gonzales, Farmers' Institute.

1903, December 12.—Hallettsville, Farmers' Institute.

1903, December 16.—Fort Worth, Farmers' Institute.

PUBLICATIONS.

The following publications have been issued:

December 1, 1902.—“A Statement Concerning the Office of State Entomologist, Its Work, Equipment and Needs,” 8 pages, 1000 copies.

February 5, 1903.—Circular 1, “The Mexican Cotton Boll Weevil and Cotton Boll Worm;” 8 pages, 3000 copies.

April 1, 1903.—Circular 2, “The Chinch Bug;” 2 pages, 5000 copies.

April 24, 1903.—Circular 3, "Directions for the Treatment of Insect Pests and Plant Diseases;" in joint authorship with Mr. E. C. Green; 1 page folio. First published by the Galveston-Dallas News, April 24, and reprinted with their permission from their plates, 1000 copies.

August 10, 1903.—Circular 4, "How to Combat the Mexican Cotton Boll Weevil in Summer and Fall;" 4 pages, 15,000 copies.

November, 1903.—Press Notes, Texas Agricultural Experiment Station, "Winter Work Against the Boll Weevil;" 1 page, galley.

March 1, 1904.—Circular 5, "Cut Worms;" 2 pages, 3000 copies.

April 1, 1904.—Circular 6, "Two Plum Weevils;" 4 pages, 3000 copies; Circular 7, "Grasshoppers;" 4 pages, 3000 copies.

April 15, 1904.—Circular 8, "The Cotton Boll Weevil in Texas;" 13 pages, reprinted from the Proceedings of the Society for the Promotion of Agricultural Science and the Association of Economic Entomologists; 500 copies.

Manuscript press bulletins were also issued to the leading newspapers: February 10, 1903.—"Burning Cotton Stalks for the Boll Weevil."

March, 1903.—"Foul Brood Among Bees in Texas."

The following articles have been published by different members of the office force:

E. D. Sanderson.

1902, November.—"Directions for Sending Insects;" Dallas Semi-weekly News and other papers.

1902, November 25.—"Work of Entomological Department;" Galveston-Dallas News, Houston Post.

1902, December 5.—"Tree Cricket Eggs;" Whitewright Sun.

1902, December 16.—"The Boll Weevil and Work of Entomological Department;" Waco Tribune, Cotton Pests Edition, 1 page.

1902, December 24.—"Grain Weevils;" Stockman and Farmer.

1903, January 2.—"Wheat Aphis;" reply to B. F. Hawkins, Midlothian, Dallas Semi-weekly News.

1903, January 2.—"Moths Identified;" T. D. Phillips, Cheek, I. T.

1903, January 9.—"Tree Cricket Eggs;" reply to A. N. Whitten, Dublin, and Trap Lights. (l. c.)

1903, January 13.—"Tree Cricket Eggs;" reply to W. T. Graves, Morgan. E. B. McLaughlin, Hodge. (l. c.)

1903, January 24.—"Southern Grain Louse or 'Green Bug'" (*Toxoptera graminum*); letter in reply to Hon. C. F. Stewart; Galveston-Dallas News, January 30; Houston Post, January 24.

1903, January 30.—"Tree Cricket Eggs;" Meridian Tribune.

1903, February 20.—"Cut Ants;" reply to C. Wilbern, Babyhead; Dallas Semi-weekly News.

1903, February 27.—"Bombardier Beetle;" reply to C. A. Jenkins, Poxton. (l. c.)

1903, March 15.—"Boll Weevil;" reply to W. P. Allgood, Devine; Houston Post.

1903, March 26.—"Green Bug;" Denton County Record.

1903, March 25.—"Foul Brood;" Texas Stockman and Farmer and other papers.

1903, April 27.—“Tree Cricket Eggs;” reply to F. A. Bennett; Denton County Record.

1903, June.—“Larva and Pupa of Apple Bud Borer (*Steganoptychia pyricolana*)” illustrated; Canadian Entomologist.

1903, July.—“Apicultural Work of the A. and M. College;” pages 150-154.

1903, July.—“Cotton Insects;” pages 115-117. Proceedings of the Sixth Annual Session Texas Farmers’ Congress, and American Bee Journal, Southland Queen, and Progressive Beekeeper.

1903, August 11.—“Sunflower Weevil (*Desmoris constrictus*), Cotton Square Borer;” W. T. Thompson, Byron; Dallas Semi-weekly News.

1903, August 16.—“Boll Weevil from Dallas County;” Dallas News.

1903, October 5.—“San Jose Scale;” reply to T. B. Downing, Campbell; Farm and Ranch.

1903, November 15.—“The Mexican Cotton Boll Weevil;” 3 pages, illustrated; “Cotton” (Atlanta, Ga.)

1903, December.—“The Mexican Cotton Boll Weevil;” proceedings Second Annual Session Texas Cotton Growers Convention and Farm and Ranch, December 19 (illustrated).

1903, December 31.—“The Mexican Cotton Boll Weevil in Texas;” St. Louis Republic (in part) and proceedings Twenty-fifth Annual Meeting Society for Promotion of Agricultural Science; pages 157-170, 6 figures; issued separately as circular of this office.

1903, March.—“A card system for Entomological Records;” pages 26-34.

1903, March.—“Insects of 1903 in Texas;” pages 92-96; proceedings Sixteenth Annual Meeting Association Econ. Ent. Bull; 46, U. S. Div. Entom. U. S. D. Agriculture.

1903, March 27.—“Green Bug (*Toxoptera graminum*) Enemies;” reply to Hon. J. K. Wells, Whitewright; Dallas Semi-weekly News, 1 figure.

A. P. Conradi.

1904, March.—“Variations in Protective Value of Odoriferous Secretions of Some Heteroptera;” “Science.”

1904, February 21.—“Fleas.”

1904, February 27.—“Ohio Farmer.”

1904, March.—“Houseflies;” Iowa Homestead.

1904, March.—“Squash Bugs;” New England Homestead.

1904, March.—“Harm Done American Crops by Insects;” Star of Western Ohio.

1904, April.—“How Insects Live and How to Combat Them;” Star of Western Ohio.

1904, April.—“Beneficial Insects; Ants, Bedbugs, Houseflies, Fleas, Pea and Bean Weevils; Cutworms, Grasshoppers; Insecticides and Their Application.”

Wilmon Newell.

Proceedings sixth annual session Texas Farm. Congress, “Work of the experimental apiary;” pp. 155-163.

Newell.

1903, February.—“Bee Keeping in Texas;” American Bee Journal.

1903, January 21.—“Birds and Boll Weevils;” Texas Stockman and Farmer.

L. H. Scholl.

1903, September.—“Advantages of Organization;” Southland Queen.

1903, January.—“Foul Brood and Diseases of Bees.”

1903, April.—“Bee Diseases of Texas;” Dallas News.

1903, October.—“Some Lessons in Beekeeping;” part 1 and 2, Farm and Ranch.

There is now no provision made for the publications of this department. A biennial report covering the investigations of the past two years in detail will be prepared during the fall, and provision should be made for its publication. The Director of the Experiment Station now has the manuscript for a bulletin of twenty-four pages upon “Insects Mistaken for the Cotton Boll Weevil; the Life and Habits of the Boll Weevil and Methods for its Control.” There are several bulletins which might well be issued had we funds to publish them, notably upon “Spraying and Insecticides,” and “Insecticide Machinery.” A somewhat comprehensive bulletin should be published upon the insects affecting truck crops and another upon those affecting fruit crops. I would earnestly recommend that some provision for these and other publications of this department be made. It is my desire to publish brief circulars similar to those already issued upon all of the more common insects concerning which we receive inquiries, as the demand arises.

CORRESPONDENCE.

One of the principal services of this office is in identifying specimens and giving advice through correspondence concerning the methods of control for injurious insects. During the period covered by this report we have record of 1956 letters received, and 2082 letters written to Texas people, and 845 received and 872 sent to parties outside the State. This does not include a large number of postal cards and inquiries which have been answered by a circular of which we have been unable to preserve record, owing to a lack of sufficient clerical assistance. A record has been kept of all inquiries concerning insects whose food is known, and 950 such inquiries have been recorded. Sixteen circular letter forms have been issued, aggregating 3500 copies. At the present time, the correspondence of the office averages about twenty letters per day. With the clerical work involved in properly recording and filing this correspondence and other notes, so as to make the records of the department intelligible and of value, it is impossible for a clerk to do the work of this office in practically half a day, as under the present arrangement, and I would recommend that the time of the stenographer be devoted exclusively to the work of this office.

VOLUNTARY ENTOMOLOGICAL OBSERVERS.

In a State of this size with the many different crops and climates over a wide range of territory, it is impossible to keep in touch with the depredations of insects of all parts of the State unless there is some systematic means of communication between the writer and individuals in each section. We have, therefore, established a system of voluntary entomological observers, patterned after those in successful operation in other States. One or more men in each county are sent blanks and return envelopes, upon which they make a report every two weeks, or as often as may seem necessary, concerning the insects of their county or section of the county. Inquiries are answered, methods of insect control are advised, and unknown insects determined for them. By these means we are securing much valuable information regarding the distribution, time of appearance, injury by, and methods for the control of insects, and we believe are securing a greater interest in this subject in the communities where these men are located. We now have a list of over 200 such men in 119 counties. We find it difficult to find a person who will take an interest and act voluntarily in this work, but we hope to be able to make the work more instructive in the future. The publication of a small bulletin concerning the life and habits, and the various classes of insects with directions for collecting and preserving them for the use of these observers and for distribution among the public schools is desired, and will be issued as soon as funds are available.

EQUIPMENT.

Upon assuming charge of the work it was found that owing to lack of funds and the exigencies of the work the department possessed practically no laboratory or office equipment. With the funds then available the apparatus needed at once was purchased, and during the past year the major portion of the funds apportioned this department for equipment have been expended, and at present we possess an equipment which, it is safe to say, is up to the average of most agricultural colleges. It should be equal to the best, as no other State has the entomological problems of Texas. Among the more important items of our present equipment might be mentioned:

FIELD APPARATUS.

Horse, wagon, buggy, harness, cultivators and farm tools, three barrel-spray pumps, one wheelbarrow pump, two dusters, two bucket pumps, one knapsack sprayer, row sprayer, atomizers and insecticides.

FURNITURE.

Desks, chairs, two work tables, collection cabinet, card cabinets and bookcases.

PHOTO APPARATUS.

Copying camera, stand, lenses and accessories and portable camera. The photographic outfit leaves but little to be desired, and is owned jointly with several departments of the Experiment Station using it.

BUILDINGS.

An addition to the bee house of about two-thirds the size of the original bee house, with a cellar beneath it, has been erected. It was found that the field sprayers and tools of the department were becoming damaged and lost through lack of adequate storage facilities. A small barn, 22x44 feet, was therefore built to house the field apparatus, and with a work room where are kept on exhibition the various types of insecticide apparatus and insecticides in use, and with the facilities for the mixing of insecticides and the repair of machinery.

LECTURE EQUIPMENT FOR USE IN THE LECTURE ROOM.

We have secured a complete set of the charts of Leuckart and Nitsche upon insects, five papier-mache and plaster-of-paris Azoux models of the bee, silk worm, May beetle, grasshopper and mosquito, imported from Paris, and about 125 lantern slides, many of them colored and most of them made here. Some 200 lantern slides are now being made from negatives made by the writer in Delaware. With a suitable lecture room available we will have all the equipment for giving first class instruction, except a stereopticon, which is now owned jointly by several departments.

INSECT COLLECTION.

The collection of insects has grown more rapidly than we have been able to care for. Some 300 species were purchased to illustrate the principal insects of Europe and to form a working basis in classification of American specimens. A considerable number has been kindly determined for us through the courtesy of the Division of Entomology of the United States Department of Agriculture and the United States National Museum.

During the period of this report a collection of 1500 species and of close to 10,000 specimens have been secured. The greater portion of this is unarranged and not identified owing to lack of time for its care.

LABORATORY APPARATUS.

Two compound microscopes, two dissecting microscopes, one dozen lense stands, with lenses for students, two of the best types of microtomes, glassware, chemicals and dissecting instruments.

LIBRARY.

The beginning of a good working library has been made. We have practically a complete set of the American entomological journals, in-

cluding Entomological News, twelve volumes; Proceedings of Washington Entomological Society, four volumes; Canadian Entomologist, thirty-five volumes; Proceedings of the Philadelphia Entomological Society, six volumes; Transactions of the American Entomological Society, twenty-nine volumes; Psyche, ten volumes; Entomologica Americana, five volumes, and The Journal of the New York Entomological Society, ten volumes. Current files of these publications are maintained. We have secured none of the foreign journals as yet, though many of them contain the most important papers upon various groups of insects. A fairly complete library of the reports and bulletins of the leading American entomologists, including those of Riley, Lintner, Forbes, Fitch and others, and the Experiment Station workers, have been secured and a considerable number of these publications bound. Files of the leading American and foreign bee journals, ten in number, are maintained, and we have some fifty back volumes, including a complete set of Beekeepers' Review, fourteen volumes, and the American Beekeeper, thirteen volumes.

ASSISTANCE.

In June, 1903, Mr. Wilmon Newell resigned his position as assistant to accept a similar position in Georgia, and was later created State Entomologist of Georgia. Mr. Newell was a peculiarly valuable man for the work here, involving both a knowledge of entomology and apiculture, and his work along both these lines was much appreciated. It was found impossible to properly look after the experimental apiary and the other interests of the bee industry with but part of the time of one man. We therefore secured the services of Mr. L. H. Scholl of Hunter, Texas, an experienced beekeeper, and secretary of the State Beekeepers' Association, to take charge of the apiary, devoting his time almost exclusively to it and the apicultural interests of the State. In September, 1903, Mr. A. F. Conradi, a graduate of the Ohio State University, and formerly assistant entomologist of the New Hampshire Agricultural College, was appointed assistant entomologist, and has had principal charge of the laboratory work of the classes and the rearing of insects, in which work he has given faithful service.

The need of further clerical assistance upon the part of the stenographer has already been mentioned.

According to the agricultural course recently adopted by the Faculty, this department has been assigned instruction in Invertebrate Zoology for the sophomore class in the fall term. We have already found it impossible to make suitable preparations for instruction in the class room and laboratory, to take care of the growing collection, and to carry on investigations desired by the State.

We have so far placed a greater emphasis upon the investigation, deeming it of most importance. The course in Invertebrate Zoology will form an introduction to the work in economic entomology and all other biological work of the course, and should be given in the best possible manner. I would therefore recommend that provision be made for the employment of an additional assistant in the fall of 1905, such assistant to assist in class work and in the care and classification of the

collection. Both of these important parts of the work can thus be cared for by a man chosen for his peculiar fitness for such work and the time of the present assistant can be devoted exclusively to investigation.

As already noted, we have found it impossible to investigate several problems of vital interest to the truck growers of South Texas. We have considered it inadvisable to take up more problems than those now on hand without failing to appreciate the importance of the work needed to be done. Sweet potato growing has been abandoned in South Texas owing to the ravages of a root weevil, though it was a profitable industry. Onion growing suffers very serious losses every year by a small insect, the onion thrips. Several other insect pests which are new to us cause considerable losses, and methods of combating several well known insects are but little known. These insects can be studied properly and experiments made on them only under South Texas conditions. I would therefore urge the consideration of the advisability of having an assistant who shall reside at the Beeville sub-station during the greater part of the year and have charge of study of insect pests and means of combating them peculiar to South Texas, and who might also have charge of experiments with methods of control of plant diseases. During the winter months he could assist us here and be of service by lecturing at farmers' institutes. Additional funds for this purpose might be added to the appropriation for the Beeville station, or might be provided from those of this and other departments of the College or Experiment Station.

APIARY.

The Experiment Apiary is entirely in charge of Mr. L. H. Scholl, who outlines the experiments and is responsible for the entire work in Apiculture. As already noted, a large addition, with cellar, to the bee house has been built, together with ample storage room for hives and for carrying on experiments for making vinegar from the poorer grades of honey. The Apiary now contains forty colonies, embracing six races, and thirty frame hives, with accessories. The Apiary as a whole is undoubtedly the best equipped experimental apiary of any connected with an agricultural college or experiment station in the United States. Experiments are now being conducted in bottling honey at different temperatures and by different methods to determine the best means of preventing crystallization; in determining whether any honey plants may be profitably planted at the College and the best honey plants in different sections of Texas; in the methods of making vinegar from the cheaper grades of honey, and whether such a course is profitable; experiments of various kinds with wax foundation to determine the best foundation for various purposes, and the best means of removing adulterants, and saving and purifying wax; experiments with different types of hives to determine which are best adapted for various conditions and purposes; study of the different races of bees as to their vitality and adaptability to various conditions; queen rearing and the prevention and control of swarming; experiments in the handling of out-apiaries with all the problems connected with them. The work in apiculture at the College is much hampered by the fact that the flora in this immediate vicinity is poorly adapted to bee culture. In the Brazos bottom, however, the bees seem

to do well. An experimental out-yard has therefore been arranged by Mr. Scholl in co-operation with Prof. R. F. Smith, whereby thirty colonies of bees are placed at his disposal for experimental work and the study of problems involved in maintaining such an out-yard. Mr. Scholl's private apiaries, located near Hunter, one of forty-two colonies of Italians and Carniolans, one of forty-eight colonies of Golden Italians, Holy Lands and Hybrids, one of forty colonies of Hybrid Italians, are also being conducted by his manager in charge, so that the results there secured will be of value as an experiment in the maintenance of out-yards. Mr. Scholl has visited all of the principal beekeeping centers of the State, and is becoming thoroughly familiar with the problems of the industry in all portions of the State. Such work requires some time before results of value can be secured. A personal knowledge of the flora and habits of the bees in any given locality are necessary before experimental work of value can be accomplished.

At present there is no provision for instruction in Bee Culture in any of the College courses. I would suggest that it be made an optional subject in the spring term of any year in the Agricultural course. I would also suggest that it might be well for the College to offer a special course in Bee Culture during the spring of 1905, commencing about April 1st and closing with the College year. The expense per student for materials used would be about \$5, which should be covered by a fee or provided by the College. Such a course would come during the active period of the bees at College Station, and I have no doubt would draw many beginners to the College.

The last Legislature passed a law making it the duty of the State Entomologist to have control of the eradication of foul brood. No appropriation was made to cover the expenses of such work, however, though the attention of the Legislature was called to the fact that nothing could be done unless funds were available. Owing to the lack of funds we have informed the beekeepers in the sections where foul brood exists that if they would pay the local expenses of the inspector we would send him to their section to investigate and enforce the law. Under this arrangement, Mr. Scholl spent some time at Beeville and the surrounding country in March, 1904, inspecting about 2000 colonies and traveling over about 250 miles, finding in all twenty-five hives in four apiaries, which were treated. The situation in Uvalde County has also been investigated, but owing to lack of co-operation on the part of the beekeepers nothing has been done. I have below suggested that this foul brood law be included under the work of a crop pest commission. The present foul brood law is inadequate in many respects, and I am inclined to doubt as to whether, under its provisions, we can accomplish the work desired. If such a crop pest commission is not created, the present foul brood law should be amended, and either special appropriation made or funds provided out of the general appropriation for the College for its enforcement. During the past year Mr. Scholl has addressed ten farmers' meetings, mostly beekeepers' associations, upon bee culture, in which work and in the investigation he has traveled about 4000 miles.

BEEKEEPERS' AND OTHER MEETINGS ATTENDED.

1903, April.—The Bexar County Beekeepers' Association meeting at San Antonio.

1903, August.—The Wilson County Beekeepers' Association, Floresville.

1903, August.—The Texas Honey Producers' Association, Floresville.

1903, September 11.—The Uvalde Beekeepers' Association, Uvalde.

1903, October.—The Brazos County Farmers' Institute, Bethel.

1903, December 11.—East Texas Truck Growers Union, Lufkin.

1904, March 3 and 4.—Southwest Texas Beekeepers' Association, Floresville.

1904, March 11 and 12.—South Texas Beekeepers' Association, Beeville.

1904, April 5 and 6.—North Texas Beekeepers' Association, Blossom.

1904, April 23.—Truck Growers Association, Navasota.

The correspondence upon apiculture has been kept separate from that upon entomological matters and has numbered 656 letters received and 264 letters sent in 1903, and 205 letters received and 123 letters sent up to May, 1904.

Nine hundred dollars of the funds apportioned to this department have been placed at the disposal of the agricultural work, and I have made estimates below for the funds necessary for its continuance.

Mr. Scholl has also taken a leading part in arranging an exhibit of Texas honey, wax, bees and supplies at the World's Fair at St. Louis, and has this work in charge.

LEGISLATION.

It is quite apparent to one familiar with the past history and the present situation regarding insects in Texas that some legislation is needed to prevent the introduction of insect pests and their consequent spread and destruction throughout the State. Had such legislation been in force ten years ago, the boll weevil could have been effectually prevented from invading Texas. Several serious insect pests have already been imported from Mexico; there being practically but four points of entrance from Mexico this emigration might be easily controlled. The commerce of our Gulf ports with the West Indies and which, with the completion of the Panama canal, will extend to the Orient, also furnishes an opportunity for the importation of many serious insect pests. Not only this, but the very sudden development of the fruit industry in East Texas is causing Eastern nurserymen to sell inferior trees to our fruit growers, and it will be remarkable if many of these trees are not affected with various insect pests and diseases. As a matter of fact, a large number of the orchards and nurseries are now affected with one of the most serious diseases of the peach, known as the crown gall, which in our judgment is likely to prove a more serious enemy of peaches in East Texas than is the yellows in other peach belts. All of these matters might be controlled and are being controlled to a large extent in other States by judicious legislation. Most of the Southern States now have legislation to prevent the entrance of the cotton boll weevil from

Texas, though I do not regard it as feasible to prevent the spread of this insect in Texas or attempt its extermination, yet I believe that in the course of a very few years our people will be ready and will demand that certain regulations concerning the handling of the cotton crop for preventing the increase of the weevil be enforced. Copies of the legislation above mentioned I herewith append.

At the last session of the Texas Legislature Hon. F. B. Guinn introduced a bill on this subject but it failed to come up. A similar measure will probably be introduced at the next session: I append a rough draft of legislation, molded largely after that of Louisiana, which seems to me especially desirable for Texas. Briefly this provides for the creation of a crop pest commission, to be composed of the State Commissioner of Agriculture, two other members of the Board of Directors of the Agricultural and Mechanical College, the President of the Agricultural College and the State Entomologist. This Board should have power to make rules and regulations to prevent the importation and spread of insect pests, plant diseases and diseases of bees, such regulations to have the force of law, if not in conflict with the Constitution of the State or United States, and with the provision for punishment for failure to comply with such regulations. Under this Act, the Entomologist would be executive officer of the commission. In that case the present current expense fund of the Entomological Department should be principally borne from funds of this commission, while the College would care for the equipment and salaries of investigators and instructors.

I believe that if such legislation can be enacted and the work be taken in hand advisedly that in the course of two or three years such a commission would be in a position to render the State considerable service. It will require a year or so to get the machinery of such work in effective running order and to ascertain just what measures are expedient and desirable. I trust that the Board of Trustees will give this matter consideration and make recommendations to the Legislature concerning it. I have included in this proposed legislation the power to control foul brood and other contagious diseases of bees, which would repeal the present law, concerning which see the discussion under "*Apiary*."

ROOMS.

At the present time this department has no recitation room or laboratory for students. During the past winter the north room was used for student laboratory, the class being divided into two sections for that purpose. Even then it was so crowded that the room could not be heated, and on cold days we were compelled to adjourn the class. Professor Puryear's section room was used through his courtesy. In case the schedule did not permit such an arrangement we would be unable to hold recitations where the charts, models and collections could be used for illustration. It will be impossible to use the north room this winter for laboratory sections, owing to the work being carried on in co-operation with the Department of Agriculture requiring its use. If instruction is to be given, therefore, it will be necessary to provide suitable room for laboratory and recitation adjacent to rooms now occupied. If rooms are located in other buildings, we will be unable to use the ex-

cellent equipment we now have for illustration, such as charts, models and collection.

The north room, at present used for the rearing of insects, is entirely unsuited to this purpose. It is cold and dark and we are unable to grow plants or rear insects under natural conditions. We have, therefore, been unable to do much work desired, and have been compelled to carry on work in temporary quarters out of doors, which very often are disturbed and the work ruined.

I understand that a new hospital building is desired by the College authorities, in which case I would strongly urge that the present hospital building be given to the Entomological and Botanical departments, that a glass house for insectary purposes be attached, suitable alterations in the building made, and that it be equipped for student laboratory, lecture room and offices. I would suggest that one ward might be used jointly by the two departments as a lecture room, and that one ward upstairs might well be used as a biological museum. The work of the Entomological department would necessitate its laboratory being upon the ground floor. I have included in my estimates a tentative estimate for the equipment and alteration of the hospital building in this matter.

The photographic apparatus and stereopticon now used by us are in the Agricultural building and owned jointly by several departments. In case the Biological departments were placed in a separate building, they should have their own equipment for this purpose.

In case the hospital building does not become available, I would advocate building a glass house and workroom on the apiary grounds at an approximate cost of \$2000.

For current expenses during 1904-5 I would request a continuance of the present apportionment of \$1500. A larger sum is really needed and the work can not be carried on for less, without curtailment. For the biennial period of September, 1905, to September, 1907, I would submit the following estimates:

EQUIPMENT.

| | |
|---|--------|
| Insectary and laboratory apparatus (including instruments and glassware for student laboratory and insectary equipment).... | \$500 |
| Library | 500 |
| Collection (cases, blocks, etc.)..... | 200 |
| Field apparatus..... | 300 |
| Apiary | 500 |
| Photo outfit and stereopticon (which will not be needed if new quarters are not secured)..... | 500 |
| Total | \$2500 |

BUILDING.

| | |
|--|--------|
| Glass house..... | \$1000 |
| Heating same and building..... | 500 |
| Cases, student desks, blackboards and furniture..... | 800 |
| Repairs and alteration to building..... | 700 |
| Total | \$3000 |

ANNUAL CURRENT EXPENSES.

| | |
|---|---------------|
| Travel | \$500 |
| Office expenses (postage, freight, express, stationery) | 500 |
| Apiary | 250 |
| Field work (including pay of one laborer, and co-operative work in various parts of the State) | 1000 |
| Supplies and insecticides | 250 |
| Total | <u>\$2500</u> |

These estimates are based upon the present expenditures, and I believe are barely sufficient to cover the actual expenses of the work as developing at present. This will be seen from the following summary of expenditures during the period of this report.

During the fiscal year 1902-03, the funds were expended as follows:

SALARY AND EXPENSE ACCOUNT, \$2200.

| | |
|---------------------------|-----------|
| Salary | \$1500 00 |
| Postage | 97 60 |
| Express and freight | 75 10 |
| Stationery | 184 00 |
| Travel | 144 21 |
| General supplies | 30 02 |
| Field work | 289 70 |
| Publications | 57 21 |

INSECTICIDES AND APPARATUS, \$600.

Expended as Follows.

| | |
|----------------------------|----------|
| Furniture | \$139 21 |
| Laboratory apparatus | 188 55 |
| Sprayer | 35 00 |
| Library | 51 50 |
| Insecticides | 5 75 |
| Photo apparatus | 50 04 |

APIARY, \$250.

Expended Mostly as Follows.

| | |
|---|---------|
| Bees and queens | \$44 40 |
| Hives and apparatus | 62 19 |
| Tools, fencing and accessories to bee house | 39 43 |
| Library | 16 30 |
| Travel | 21 10 |
| Freight and express | 18 31 |
| Postage | 14 90 |
| Experiments | 21 83 |
| Office improvements | 6 00 |

Biennial period 1903-05.

EQUIPMENT ACCOUNT, \$3000.

Of Which the Major Portion has Been Expended, and the Balance will be Expended Approximately as Follows:

| | |
|---------------------------|----------|
| Apiary | \$650 00 |
| Laboratory apparatus..... | 500 00 |
| Library | 550 00 |
| Field apparatus..... | 200 00 |
| Furniture | 200 00 |
| Photo apparatus..... | 200 00 |
| Collection | 150 00 |
| Lecture equipment..... | 300 00 |
| Barn equipment..... | 250 00 |

EXPENSE ACCOUNT, 1903-04.

Has Been or Will be Expended as follows:

| | |
|----------------------------|----------|
| Postage | \$125 00 |
| Express and freight..... | 175 00 |
| Stationery | 125 00 |
| Travel | 400 00 |
| Publications | 75 00 |
| Field work in State..... | 100 00 |
| Field work at College..... | 350 00 |
| Student assistant..... | 70 00 |
| Apparatus | 80 00 |

At the present time no arrangement seems possible whereby the farm department or experiment station is able to take care of the cultivation of the crops necessary for this department. I have therefore arranged with the Director of the Experiment Station whereby the Experiment Station employs a man to cultivate the crops for our experiments, and this department reimburses the Experiment Station for the actual cost of such operations, we furnishing the team and tools and superintending the work. I would recommend that the Entomological department be made a department of the Experiment Station, the same as other departments, for the purpose of properly arranging this matter and financing and managing the cultivation of experimental crops.

In establishing the work of this department I have endeavored to do so in a manner which would put it on a firm basis and would enable anyone in the future to take up the work and carry it on with the best facilities and with the benefit of whatever work had previously been done. Necessarily, the purchase of a large amount of equipment and its installation, becoming acquainted with a very large territory, and many new problems, and until very recently with no library and but few instruments at our disposal, and until last fall with no assistant devoted exclusively to entomological work, and with no stenographer, we have been unable to complete any exhaustive investigations. We have, however, prosecuted several lines of work, upon which we shall be able to report the coming fall quite fully. I believe that the general policy and work of the de-

partment is coming to be appreciated by the people whom we are trying to serve.

Expressing my hearty appreciation of your kindly interest and generous support of this work,

Respectfully submitted,
E. DWIGHT SANDERSON,
Professor of Entomology and State Entomologist.

PROPOSED LEGISLATION CREATING A CROP PEST COMMISSION FOR TEXAS.

(Modeled mostly upon the law of Louisiana, which see.)

To provide for the establishment and organization of a State Crop Pest Commission and to define the duties and powers of the same; to fix penalties for the violation of any of the rules, orders, ordinances and regulations thereof; to provide for the publication and distribution of all the proceedings and recommendations of said Commission; to authorize said Commission to restrain by injunction or otherwise any violations, or threatened violations, of its orders, rules, ordinances and regulations, and to prohibit any court of the State from bonding the same prior to trial on the merits; to make it the duty of the Attorney-General and District Attorneys to represent said Commission and the Sheriff to serve all papers for said Commission; to provide for the payment of all fines and forfeitures for violations of the orders, rules, ordinances and regulations of said Commission to the State Treasurer, and by him to be placed to the credit of said Commission; to relieve said Commission of the necessity of giving bond or security in any legal proceedings which it shall institute or defend in any court of justice in this State; to make an appropriation to carry out the provisions of this Act and to repeal all laws or parts of laws inconsistent or in conflict with the same.

Section 1. Be it enacted by the Legislature of the State of Texas, That a State Crop Pest Commission is hereby created and established, to consist of the State Commissioner of Agriculture, and two other members of the Board of Directors of the Agricultural and Mechanical College, to be selected by said Board of Directors, the President of the Agricultural and Mechanical College (or Director of the Experiment Station) and the State Entomologist.

Said Commission shall have its domicile at the Agricultural and Mechanical College and shall hold its first session at said place immediately after the promulgation of this Act, and at such other times and places as may be designated by said Commission. At any meeting of said Commission any three members shall constitute a quorum to transact business. The members of said Commission, not salaried under the State government, shall receive the sum of five (\$5) dollars per day for each day consumed in going to and returning from any of the meetings of said Commission, and while in attendance thereon, and necessary traveling expenses, which amount shall be paid by the State Treasurer on the voucher of the member, approved by the Governor, out of any funds to

the credit of said Commission. Said Commission shall elect one of its members secretary, and shall appoint such other assistants as may be necessary to carry on the work of said Commission, and shall fix their compensation.

The Professor of Entomology employed by the Board of Directors of the Agricultural and Mechanical College (as empowered under Act —) shall be known as the State Entomologist under this Act.

Sec. 2. Be it further enacted, etc., That for the purpose of carrying out the rules, ordinances, orders and regulations of said Commission, as hereinafter provided, the Commissioner of Agriculture shall be the active chairman of said Commission, and as such shall see that all the rules, ordinances, orders and regulations of the same are faithfully executed; and in addition to such duties the active chairman shall have the power, during the interval between the meetings of said Commission, and when the same is not in session, to issue all orders, and to take all necessary steps, by suit or otherwise, to execute the laws of the State on the subject matter delegated to said Commission, and to carry out the rules, ordinances, orders and regulations of said Commission made thereunder; and he may, in his discretion, call special meetings of said Commission whenever, in his opinion, an emergency shall require it, provided, that in all cases where two or more members shall demand the same, it shall be his duty to convene the same in special session.

Sec. 3. Be it further enacted, etc., That said Commission shall have full and plenary power to deal with all crop and fruit pests and such contagious and infectious diseases of crops, fruits and honey bees as, in the opinion of the Commission, may be prevented, controlled or eradicated; and with full power and authority to make, promulgate and enforce such rules, ordinances, orders and regulations, and to do and perform such acts as, in their judgment, may be necessary to control, eradicate and prevent the introduction, spread or dissemination of any injurious pests or diseases of crops, fruits or honey bees, as far as may be possible, and all the rules, ordinances, orders and regulations of said Commission shall have the force and effect of law so far as they conform to the general laws of the State and the United States. Said Commission, in the exercise of the power and authority hereby delegated, shall have authority to prohibit the shipment or bringing into this State of any farm product, trees, plants, cuttings, scions, fruit, seed, bees, or any other article of any nature or character whatsoever from any State, Territory or foreign country, or consigned from points within any State, Territory or foreign country where infectious or contagious crop or fruit disease exists, except under such rules and regulations as may be adopted by said Commission.

Sec. 4. Be it further enacted, etc., That any person, firm or corporation violating any of the rules, ordinances, orders or regulations of said Commission, shall be guilty of a misdemeanor, and shall, upon conviction thereof, be punished by a fine of not less than twenty-five nor more than one thousand dollars, or imprisonment for not more than six months nor less than thirty days. All prosecutions under this Act shall be commenced and carried on in any county of the State affected by the violation of said orders, ordinances, rules and regulations, and the said Commission may enjoin any threatened or attempted violations of its

rules, orders, ordinances and regulations in any court of competent jurisdiction, or take any other civil proceedings necessary to carry out and enforce the purposes of this Act; and no court of this State shall have the right previous to final trial to set aside said injunction on bond. It shall be the duty of the Attorney-General and the various District Attorneys to represent said Commission whenever called on to do so; and said Commission in the discharge and enforcement of the duties and powers herein delegated, may send for books and papers, swear witnesses, etc.; and it is hereby made the duty of the various Sheriffs throughout the State to serve all papers, summons, etc., that may be delivered to them by said Commission.

Sec. 5. Be it further enacted, etc., That said Commission at their first session shall prepare and publish a list of dangerous crop and fruit pests, and infectious and contagious plant diseases, known or suspected to be present within the State, or liable to be introduced, and may at any subsequent meeting extend or amend said list. The Commission shall also publish methods for exterminating such pests or infectious diseases as they may deem capable of being exterminated within the boundaries of the State, and for suppressing such as can not be exterminated, and for preventing the spread of such pests or diseases within the State; and for the purpose of disseminating knowledge concerning contagious diseases or injurious pests affecting crops, plants, trees, etc., and the remedies, preventives and disinfectants applicable thereto, the Commission shall from time to time, as they may deem necessary, have printed and distributed bulletins containing such information, remedies, preventives and disinfectants as they may approve, including also the rules, orders, ordinances and regulations of said Commission, which said bulletins shall be prepared or edited by the State Entomologist and printed and distributed to all interested persons under the direction and supervision of the Texas Agricultural Experiment Station.

When the said Commission or the State Entomologist has reason to suspect that any pest, plant disease or disease of bees, listed by them as dangerous, exists in any county of the State, they shall cause such suspicion to be verified by the State Entomologist, and if such suspicion prove well founded, he shall immediately adopt such measures for the treatment or extermination of same as the Commission may direct. Any duly authorized agent of the Commission shall have authority to inspect any building, warehouse, depot or place where any property is located, or premises or field supposed to be infested by any crop pest or disease, listed and published as such by the said Commission, and if, in the opinion of the Entomologist selected by said Commission, it shall be necessary to destroy the property so infested so as to prevent the further spread of said injurious crop pest or disease, he shall have authority to destroy said property, and the Commission shall have the right to fix a compensation to be awarded the owner thereof. If the owner should be dissatisfied with the amount allowed by said Commission as compensation for the property destroyed, he shall have the right to appeal to the court of the county in which such property is destroyed, but in no case shall any contest as to the value of the property to be destroyed suspend action by the Commission in enforcing their rules, orders, ordinances and regulations. Anyone who shall seek to prevent any inspection

under the direction of said Commission, or who shall otherwise interfere with the agents or employes of said Commission while in the performance of their duties, shall, upon conviction, be fined not less than twenty-five dollars nor more than five hundred dollars for each offense, or may be imprisoned for not less than ten nor more than thirty days. Prosecution under the provisions of this section shall be instituted in any county of the State in which the offense is committed.

Sec. 6. Be it further enacted, etc., That all fines collected from prosecutions under the provisions of this Act shall be paid to the State Treasurer and by him placed to the credit of said Commission.

Sec. 7. Be it further enacted, etc., That said Commission shall not be required to give any bond or security in any legal proceedings which it shall institute or defend in any court of justice in this State.

Sec. 8. Be it further enacted, etc., That it shall be the duty of the State Entomologist to have general charge of the enforcement of the rules and regulations of said Commission, to make such inspections of premises suspicioned of harboring pests or diseases, as authorized under section 5 of this Act, to investigate the lives and habits of insects, and experiment with means for their prevention and control, to prepare or edit the publications of said Commission.

Sec. 9. Be it further enacted, etc., That said Commission shall make a biennial report to the Governor of Texas, embodying its rules and regulations, acts performed, and the investigations of the State Entomologist, which report shall be published as a part of the report of the Texas Agricultural Experiment Station.

Sec. 10. Be it further enacted, etc., That for the purpose of carrying out the provisions of this Act the sum of \$10,000 per annum, or so much thereof as may be necessary, is hereby appropriated, out of any funds in the Treasury not otherwise appropriated, and shall be paid by the State Treasurer upon properly authenticated vouchers signed by the president or secretary of said Commission.

Sec. 11. Be it further enacted, etc., That all laws or parts of laws in conflict or inconsistent with this Act be and the same are hereby repealed.

Sec. 12. Emergency clause for immediate enforcement.

Queries.—1. Under above can the Commission require inspection of all nurseries, and could it require nurseries to pay actual expenses of inspector? Could Commission make all necessary rules governing the suppression of foul brood and other contagious diseases of honey bees? Could the Commission make rules requiring certain treatment in lieu of which its agents would make treatment and bill for costs be collected by county and placed to credit of Commission?

2. Would this Commission have power to make regulations concerning the inspection of crops or police work, or enforcement of treatment of lands as for grasshoppers (such as involved by Minnesota law), which would impose new duties upon counties and county officials, or what legislation would be necessary to that effect?

DEPARTMENT OF FARM HUSBANDRY.

COLLEGE STATION, TEXAS, May 28, 1904.

President David F. Houston, Agricultural and Mechanical College, College Station, Texas.

DEAR SIR: I am sending you herewith report of the Department of Agriculture for the period beginning September 1, 1902, and ending June 1, 1904.

INSTRUCTION.

The work of the Department of Agriculture for the years of 1902 and 1903 was almost wholly of a class room character. During that period the Professor of Agriculture was devoting all his time to instruction by means of lectures and recitations, laboratory illustrations, so far as laboratory equipment at that time would permit. The instruction given during the session of 1902 and 1903 was embodied in the following subjects:

1. Elements of Agriculture.
2. Farm Equipment.
3. Dairying.
4. Soil Physics.
5. Farm Crops.
6. Feeds and Feedings.
7. Breeds of Live Stock.

At the beginning of the session the courses were so changed as to give opportunity for more hours of instruction along the lines mentioned. The fourth or freshman class was given elements of agriculture with a view of acquainting them with some of the principles which should underlie the study of agriculture. The sophomore class studied farm equipment during the fall term. This course included a study of the principles underlying the planning and selection of farms, the planning and building of barns and other farm buildings, the laying out of farm roads and drains, the building of fences and the operating of farm implements and machinery. During the winter term the junior class took up the study of soil. On account of an almost utter lack of laboratory equipment at that time, little progress could be made in practical investigation. A beginning, however, was made. A few pieces of apparatus were installed, and some experimental work begun on the flow of water through soils, and the relation of pore space to water holding capacity. This class during the spring term was occupied in a study of the various farm crops and their adaptation to varying soils and climatic conditions.

During the short winter course of ten weeks of the session of 1902 and 1903 the Department of Agriculture gave instruction in dairy work to twenty-two men. The lines of work given included butter making, marketing milk and cream, and a study of conditions surrounding successful

creamery operation. These special course men also received instruction in the breeds, breeding and feeding of live stock.

At the opening of the session of 1903 and 1904, provision was made for a Department of Animal Husbandry, thus relieving the Department of Agriculture of instruction in live stock. With this provision came a reorganization of the Department of Agriculture. All the work in agriculture was classified under the general heading Division of Agriculture. Within this division three departments were provided for, each with a separate and distinct course of instruction. These departments were named Farm Husbandry, formerly a Department of Agriculture; Animal Husbandry, formerly a part of the Department of Agriculture, and Plant Husbandry, previously termed Horticulture. It is with the first named of these departments that this report is concerned for the session of 1903 and 1904. The courses, however, under the three captions above mentioned will go into effect with the opening of the session of 1904 and 1905. The technical work embraced in them will be given under the present arrangement of the four years course, though each department will be concerned only with the lines of work falling under its jurisdiction.

During the session of 1903 and 1904 the Department of Farm Husbandry has given instruction in the following subjects:

1. Irrigation and Drainage.
2. Farm Equipment.
3. Soil Physics.
4. Farm Machinery.
5. Farm Crops.
6. Farm Crops (elective).
7. Soil Physics (elective).
8. Farm Crops.
9. Soils, Crops and Farm Equipment (elective).

The course in irrigation and drainage was taken by the seniors as regular work and by the juniors as elective work. The aim in this work is not to attempt to give the technical instruction necessary for a complete understanding of the subject of irrigation, but rather to give the student a practical insight into the relation of irrigation to soils and crops. The instruction in farm equipment was a duplication of the work of the preceding year. The instruction in soil physics has been put into a thoroughly scientific and practical condition. The addition of a thoroughly equipped laboratory has made it possible for men who wish to pursue this line of work to do so under the most favorable conditions.

For the first time under the present organization of this department a course in farm machinery has been offered. This course should, when properly provided for, greatly increase the benefit to be derived from a course in farm husbandry.

Advanced work along all lines of farm husbandry has been offered during the past session and these courses without exception have been well filled, showing a desire on the part of all of our students to more fully prepare themselves in their particular lines of activity.

The number of hours of instruction given by the professor of farm husbandry during the past session is, by terms, as follows: Fall term,

168 hours; winter term, 270 hours; spring term, 150 hours; session, 588 hours.

During the session nearly one thousand letters have been written in response to inquiries from farmers and others concerning agricultural work. A small portion of the time of the professor of farm husbandry has been given to farmers' institutes, a total of ten days having been devoted to this work.

EQUIPMENT.

In this part of my report, I am gratified to be able to call to your attention the practical completion of the new soil physics laboratory. While this laboratory is not yet equipped with all the apparatus we might desire for future work along advanced lines, still it is well adapted to the regular required work of the department.

In this laboratory will be found accommodations for forty students, working in two sections of twenty in each section. Water and gas are provided at each desk. All plumbing is put in in a special manner, so that no interference with regular work from this cause need occur. Gas is supplied from a 100-light gas machine. Each student is given a regular "outfit" enabling him to do independent work. Apparatus for the greater portion of work in this laboratory is constructed of heavy brass. This apparatus is used by the students, working in groups of two or three. Provision is made for a study of specific gravity of soils, apparent specific gravity, or pore space, rate of passage of air through soils, rate of passage of water through soils, amount of water a soil will take up by capillarity, amount of water retained by soils after being thoroughly saturated, the effect of different kinds of mulches on same soil, a study of the size of soil grains and the amount of organic matter in different soils, and a study of moisture, temperature, and salt contents of soils by means of electricity. In addition to these general problems relating to the soil, ample provision is made for the study of special problems.

Adjoining the soil physics laboratory is a soil storage room, in which provision is made for storing the particular soils used in the regular work of the laboratory; soils for thesis work, and soils gathered with the idea of preserving types.

EXPERIMENT STATION REPORT.

The report of the Agriculturist of the Texas Experiment Station included in this report covers the time from September 1, 1903, to date. The department has been chiefly occupied in conducting field experiments. A measure of attention has been given to the laying out of future experiments in the field work of the station, and a considerable portion of the time of the Agriculturist has necessarily been devoted to the general work of the station.

NEW EXPERIMENT PLATS.

During the early part of the past year thirty-one acres have been platted for the field work of this station. Each plat contains an exact

half acre and is ninety feet in width by two hundred and forty feet in length. Between each of these plats, and running lengthwise of them, is a twelve foot roadway. The plats are laid out in acre sections with a space eight feet wide between each half acre in each section. There is a twenty foot roadway running around the entire station field. At the corner of each half acre plat has been driven a three foot, two inch, iron pipe. This marking makes the location of the plats a permanent one. The accompanying blue print shows the survey of the experiment station field, giving boundaries and showing a particular crop to which each plat is devoted. It will be noted that this field is designed to carry on experimental work with varieties of corn, depth of breaking land for corn, depth and frequency of cultivation for corn, thickness of planting corn, rotations involving two, three and five courses, and for testing different kinds of forage crops with a view to determining their fitness for the soil and climate of Texas. It is intended also to carry on in connection with the experiment work already outlined a thorough test of the efficiency of cow peas and soja beans as organic fertilizers. The crop of the present season will serve as check or basis upon which to base future results.

SUB-STATIONS.

The work of the Agriculturist at the Troupe sub-station has been a continuation of the work of last year at that station. The work is being carried on with forage crops and cotton. At Beeville no work directly under the supervision of the Agriculturist has been in progress during the past year.

CO-OPERATIVE WORK.

Work begun in 1902 at New Hope, Texas, under the direction of the United States Department of Agriculture and the Texas Experiment Station, has been continued. Although this work has on the whole been successful, it is felt that either a closer co-operation should be effected or the work discontinued. It would seem that a system of experimental work by which the station might come in closer touch with the active operations of the farmer would be much more effective than the present method.

RECOMMENDATIONS.

Soils and Crops.—Under present conditions we have been able to make some considerable progress in investigating the soils and crops of Texas. This work should undoubtedly be expanded until it becomes of active benefit to the farmers of the State. In order that this shall be accomplished more equipment is necessary, and additional funds for experimental work should be provided. There should be provision made for a suitable farm crop laboratory which would permit germinating tests, cultural tests, fertilizer tests, etc., to be carried on. I should earnestly recommend that money be provided for this purpose and for the employ-

ment of an assistant at a salary of about \$50 per month to assist in field, laboratory and to some extent in the class room.

Farm Engineering.—With the recent development in the work of farm husbandry has come a necessity for further knowledge of the principles underlying the construction and practical observation of the various kinds of machinery brought into use on our farms. In order that this branch of our work may be made effective, I would recommend that an instructor be provided for whose business should be at least in part, to give instruction in this important line of work. With this aid it would be possible soon to build up an effective course of instruction in farm machinery.

Station Barn.—The present need of a barn for the exclusive use of the Experiment Station is apparent. Some provision of this kind seems imperative. At present we have no place for storage of seeds, crops from station field, or implements belonging to the station.

Very respectfully submitted,

F. S. JOHNSTON.

DEPARTMENT OF PLANT HUSBANDRY.

President David F. Houston, Agriculture and Mechanical College, Texas:

DEAR SIR: I take pleasure in making herewith my annual report, together with the needs for the next two years of the Department of Horticulture.

The instructional part of the work is divided between myself and Prof. E. C. Green. The amount of instruction given by the department during the present year may be seen from the schedule given below:

FALL TERM.

| SUBJECT | HOW GIVEN | Hours per Week | Class | No. of Students | Instructor |
|------------------------|---------------------------|----------------|------------------|-----------------|------------|
| Fruit Culture..... | Recitation and Practice | 4 | Juniors | 26 | Kyle |
| Pomology..... | Recitation | 3 | Seniors | 1 | Kyle |
| Landscape Gardening... | Lecture and Practice..... | 2 | Seniors and Jun. | 4 | Green |
| Forestry..... | Recitation | 2 | Seniors and Jun. | 4 | Kyle |

WINTER TERM.

| SUBJECT | HOW GIVEN | Hours per Week | Class | No. of Students | Instructor |
|--------------------------------|---------------------------|----------------|--------------------|-----------------|------------|
| Truck Growing..... | Lecture, Rec. and Prac.. | 4 | Juniors | 3 | Green |
| Nursery Methods..... | Recitation and Practice | 3 | Juniors | 3 | Green |
| Green House Construction | Lecture and Practice..... | 4 | Seniors | 1 | Green |
| Fruit Culture..... | Lecture, Rec. and Prac.. | 4 | Sh't Course St'd's | 18 | Kyle |
| Bush Fruits..... | Recitation | 2 | Specials and Jun. | 4 | Kyle |
| Truck..... | Rec., Lecture and Prac.. | 4 | Short Course | 18 | Green |

SPRING TERM.

| SUBJECT | HOW GIVEN | Hours per Week | Class | No. of Stu- dents | In- struc- tor |
|--|--------------------------|----------------------|------------------|-------------------------|----------------------|
| Plant Breeding..... | Lecture, Rec. and Prac.. | 4 | Juniors | 22 | Kyle |
| Evolution of Our Na- tive Fruits..... | Recitation..... | 3 | Seniors | 1 | Kyle |
| Nut Culture..... | Lecture..... | 1 | Seniors and Jun. | 4 | Kyle |
| Spraying..... | Eecture, Rec. and Prac.. | 2 | Seniors and Jun. | 4 | Green |
| Viticulture..... | | 1 | Seniors and Jun. | 4 | Green |

EQUIPMENTS.

During the present scholastic year the department has made the following purchases in the way of permanent improvements and equipment:

| | |
|--|----------|
| One team of mules and set of harness..... | \$340 00 |
| One vertical letter filing case, card index..... | 60 00 |
| Pruning and propagating instruments..... | 75 00 |
| Nature study library..... | 60 00 |
| Garden implements..... | 25 00 |
| Spraying machinery..... | 40 00 |
| Hot beds and cold frames..... | 130 00 |
| Photo supplies..... | 50 00 |

Total\$715 00

The nature study library includes practically all of the leading books that have been written in this country upon nature study and elementary agriculture. This is becoming an important subject in this State and this department is trying to equip itself so as to try and take the lead in working out this great question.

With the purchase of an extra team the department is now able to keep in good cultivation the extra number of acres that have been brought in during the last two years.

As to the directions of the work for the next two years it seems that there should be a decided change from the course followed in the past. The main effort heretofore seems to have been to test over and over again all of the varieties of vegetables and fruits that were recorded in the catalogues. The new conditions that have lately arisen in the State seem to prompt a change from this line of work which has become more or less of a habit with most of the experiment stations throughout the country.

Texas is practically a new State and her industries, especially that of fruit and truck growing, are of recent origin. We have conditions that give rise to questions and problems peculiar to the sections in which they arise.

It is the desire of this department to be of assistance in helping to solve these problems that are of so much importance to the growers, who are embarking into the business with practically no experience at all. By attempting to solve these problems the department not only has a chance

to render great service to the State, but to come into closer relations with the practical grower.

The success of our fruit and truck industry depends in a large measure upon the northern markets. Special experiments should be carried on at all of the stations for the purpose of improving the methods of packing and shipping, and all these problems relate to commercial shipping of our fruits to northern markets.

CO-OPERATIVE EXPERIMENTS.

At the present time there are three permanent experiment stations in the State. Two of these are essentially horticultural stations and a large per cent of the experiments carried on are along horticultural lines. While these stations are sufficient to undertake all the problems that come up of a general nature, they are altogether incapable of even attempting to solve the questions of a more or less definite character that are constantly arising in a State that has as great size, diversity of soil and climate as is to be found in Texas. Every distinct region has problems arising that are peculiar to that section and can only be worked out successfully where they occur. The railroads as they develop are constantly opening up new territories that are destined to become important centers of fruit and truck growing. I do not believe that it would be wise to establish a permanent station in every distinct section of the State, but I do believe that an effort should be made to solve the problems of the most importance. This can be done at a comparatively small cost by going into the new regions, finding out the most important problems and attempting to solve them by carrying on co-operative experiments with the practical grower.

This work will not only enable the department to render a great service to the State but will also help it to come into close and intimate relations with the practical growers in the different sections of the State. In connection with this work can be carried on fertilizer tests which are becoming of so much importance.

The records show that three years ago there were five thousand tons of fertilizer used, two years ago ten thousand tons, while last year there were over fifteen thousand tons used in the State. The fertilizer question is, therefore, becoming of the utmost importance. Many of our fruit and truck growers were formerly cotton and corn planters and are consequently ignorant of the many questions arising concerning the use and application of fertilizers. An example of the needs of such work is to be found in the Alvin strawberry and Laredo onion regions. These industries have grown up within the last few years, and while they are successful they have problems which if properly solved would render them much more profitable.

The railroads are opening up in the southeastern section of our State a vast amount of country which gives promise of becoming an important trucking country. With a practically small expense this department could take the lead in the development of this important region. In order to carry on this work successfully it will be necessary to have an appropriation of not less than \$3000, \$720 of which should go for the salary of a graduate student, who should have charge of the details of the

work, \$300 for traveling expenses and the rest for the actual carrying on of experiments.

FORCING HOUSE.

This department is in great need of a well equipped forcing house. Such a building is a horticultural laboratory and is just as essential to the success of the Horticultural department as the dairy barn is to that of the Department of Animal Industry or the chemical laboratory to the Chemical department. With a suitable forcing house instructions could be given in handicraft work, improvement of plants by cross fertilization and the methods of budding and grafting. I recommend that an appropriation of \$5000 be made for the erection of a first-class forcing house.

M. & S.

The number of experiments with truck and fruit crops at this station have been greatly increased and the expenses in the way of implements and extra labor has therefore been correspondingly increased. The sum of \$600 is not sufficient to meet the increased expenses in the department. I therefore recommend that the M. & S. appropriation for the Horticultural department be raised to \$800.

EXPERIMENTS.

During last fall the following experiments were made:

Vegetable, Fall 1903.

Variety Tests.—Irrigated: Tomatoes, radish, turnips.

Variety Tests.—Not irrigated: Peas, beans, carrots, cabbage, cauliflower.

Bunch Crops.—One-tenth Acre Plats: Radish, turnips, spinach, lettuce, carrots.

Cover Crops.—One Acre Plats: Vetch, rape, oats, rye.

Forcing House.—Commercial Test: Lettuce—Grand Rapids, Big Boston.

Vegetables, Spring, 1904.

Variety Tests (290 varieties): Potatoes, cabbage, beets, lettuce, radish, carrots, peas, beans, peanuts, cucumbers, musk melons, tomatoes, egg plants, water melons, sweet potatoes, peppers, sweet corn, squash, onions.

Flowers (45 varieties).—Variety tests: Roses, 27; chrysanthemums, 5; carnations, 5; lilies, 2; narcissus, 6.

Grapes (45 varieties).—Variety tests.

Spring, 1904.

Fertilizer tests on: Potatoes, tomatoes, musk melons, water melons.

Co-operative tests using fertilizer with farmers at: Calvert, one and

one-quarter acre plats; Nacogdoches, one and one-quarter acre plats; Lufkin, one and one-quarter acre plat; Dialville, one and one-quarter acre plat.

Investigation of Geotropism of six species of the vine and study of congeniality of same as stocks.

Co-operative experiment with Entomological department on control of boll worms in tomatoes.

FARMER'S GARDEN.

Investigation of economy of a kitchen garden.

FRUITS.

Experiment No. 1:

During last winter a young variety peach orchard was planted out. This orchard is made up of five trees each of thirty-two of the leading varieties in the State.

Experiment No. 2:

Two acres divided into one-tenth acre plats were planted out in peach trees for the purpose of carrying on three lines of experiments, one of which is to decide the effect of growing different crops such as corn, cotton, peanuts, peas, melons, oats, etc., among the trees. Another is to decide the different methods of pruning and thinning, and the last is to test the effect of the different fertilizers on trees.

PLUMS.

Experiment No. 3:

A young plum orchard has been planted out including thirty-seven of the most promising varieties of plums growing in the State.

PECANS.

Experiment No. 4:

The pecan industry is becoming of great importance in the State. A young orchard has been planted out consisting of seventeen of the leading commercial varieties.

PEARS.

Experiment No. 5:

A young pear orchard of seventy-five trees has also been planted.

FARMERS' INSTITUTES.

Institutes at the following places have been attended by the members of this department during the last two years:

E. C. Green: Seguin, Lufkin, Troupe, Abilene, Cooper, Shepherd, Giddings, Thornton, Victoria, Palestine, Eastland, Kaufman (2), Timpson (2), Hempstead, McDade (2), Calvert (3), Castrovilla, San Antonio, Weatherford, Quinlan, Nacogdoches (3), Brenham, Elgin, Canton.

E. J. Kyle: Lone Star, Mexia, Bryan (2), Nacogdoches, Kosse (2), Groesbeck, Smithville, Ledbetter, Calvert, Beeville (2), Corsicana, Marlin, Navasota, Hearne, Bremond (2), Palestine.

Articles Written for the Press.—E. J. Kyle—"Thinning Fruit": Galveston News, Texas Fruit Grower, Texas Stockman and Farmer, Texas Fruit and Truck Journal, Farm and Ranch.

"Thinning Peaches"—American Truck Farmer, St. Louis.

"Teaching Agriculture in Public Schools"—Read before the State Teachers Association at Marlin and published in the leading dailies of the State.

E. C. Green: "Potato Growing," "Bitter Rock Control," "Economy of Young Orchards," "Strawberry Pests," "Bark of Fruit Trees."

Bulletins—E. C. Green: Bulletin No. 1, "Irish Potato Growing at Troupe," has been published. "Bulletin on Strawberry Growing at Troupe," is now ready for the press.

J. A. Lomax, C. S. Potts and E. J. Kyle: Bulletin upon "Consolidation of Rural Schools and Introduction Therein of Agriculture," is now ready for the press.

The following bulletins are expected to be published in the near future: "Bulletin upon Potato Fertilizer," "Winter Gardening at Beeville," "Grape Gardening at Troupe," "Pecan Culture," "Irrigation and Non-irrigation," "Vegetables at Troupe," "Peach Culture."

Correspondence.—Some idea of the correspondence carried on by this department can be gotten from the following data: The letters now on file in this office show that from July 1, 1902, to July 19, 1903, 646 letters were received and replies made. From July 20, 1903, to May 25, 1904, 700 replies have been made to inquiries. These letters came from all sections of the State and cover every phase of horticulture.

Respectfully submitted,

EDWIN J. KYLE,

Instructor in Charge of the Department of Horticulture.

REPORT OF DEPARTMENT OF VETERINARY SCIENCE.

COLLEGE STATION, TEXAS, May 9, 1904.

Hon. David F. Houston, President.

SIR: I have the honor to submit the following report on the condition of the Veterinary department.

The department has occupied its new quarters about a year and has done the best year's work in its history. This has been partly due to better equipment and largely due to the intelligent assistance rendered by Dr. Reitz. He has had entire charge of the classes in pharmacology and laboratory work and has frequently met all other classes during my absence or when other work required my attention. So that, at no time during the year have classes failed to meet according to schedule.

The enrollment has been as follows:

| | |
|-------------------|----|
| Seniors | 6 |
| Juniors | 26 |
| Sophomores | 20 |
| Short course..... | 18 |
| <hr/> | |
| Total | 70 |

During the year we have added about \$1000 worth of furniture and apparatus for laboratory work. Owing to an error in making our desks, we are unable to use a standard size of sinks. This required a special size, which has been ordered now several months but the goods have not reached us yet. It really makes very little difference, because the class which was to have taken this character of work will be required to take it during the winter term of next year. The old building used as a veterinary barn had become an eye-sore on the campus and at the request of the dean I consented to its removal. This made matters very inconvenient for us and for class practice. The faculty has recently assigned vertebrate zoology to this department. This will necessitate some additional apparatus, of which I do not know at this moment the cost. As our students have had very little training along this line, I fear they will require an instructor with them constantly.

The greatest need of the department is a veterinary barn. We can not do creditable work with the present arrangement, and such miserable quarters as we now have causes students to become disgusted with the whole subject. Many instructive cases are now turned away which should be held for class purposes. An appropriation for this purpose received favorable action from the last Legislature, but this item was among those vetoed by the Governor. I wish, then, to renew this appeal for a suitable barn. I have given the matter considerable thought, and I estimate its cost at \$5000. It must be equipped for treating ordinary diseases

and be so arranged as to permit us to make some experiments with contagious diseases.

It is very important that our students actually see typical cases of anthrax, black leg, tuberculosis, big jaw, distemper, hog cholera, glanders, etc., that they may be able to recognize them early and take proper action to arrest an outbreak before much mischief has been done.

At present such cases are sent off the College grounds at once. In addition to College work proper, I have answered about one thousand letters per year about animal diseases. We have examined specimens of tumors, parasites, mange insects, etc., sent in for diagnosis, and many specimens from animals which were supposed to have died of contagious diseases. These things take time and energy and can not be reported by the number of hours consumed.

Owing to the decline in values of beef cattle, the demand for inoculation of imported cattle has fallen off one-half during the year. We have done, however, since November, 1901, 424 animals. This has really been of advantage, because it has permitted us to make some experiments which we have previously been unable to do on account of lack of time. These will be fully described in my report to the Director of the Experiment Station. During the year a very fatal disease of horses occurred in the State, commonly called "Blind Stagers." Several thousand animals died in a few months. We have been able to show that this trouble is really a brain disease, usually resulting in abscess formation and death.

While we are as yet unable to control it or to demonstrate in a scientific way its cause and mode of action, yet I think we have accumulated a mass of useful facts in regard to it. These are now in manuscript and will be published by the Experiment Station.

In a word, while we are badly in need of better facilities for this work, I feel that we are making substantial progress each year.

An inventory of the property of the department is also presented.

Respectfully submitted,

M. FRANCIS,

Professor Veterinary Science.

COLLEGE STATION, TEXAS, May 11, 1904.

Hon. David F. Houston, President:

DEAR SIR: I have the honor to request a leave of absence, say from June until December, in order that I may visit the veterinary institutions of Europe. I wish especially to go to Hanover, Berlin, Dresden, Stuttgart and Paris, and if time permits I may go to Copenhagen.

The Germans and French lead the world in such matters, and I wish to see for myself their equipment, their methods of work, and get, if possible, a reading knowledge of their language.

Respectfully submitted,

M. FRANCIS,

Professor Veterinary Science.

COLLEGE STATION, TEXAS, May 13, 1904.

Hon. David F. Houston, President, College:

DEAR SIR: During the great flood of the Brazor River in 1899 there occurred a large cave-off near Munson's shoals, which exposed quite a number of bones and teeth of the mammoth and the mastodon. These were collected by a negro and brought to the College. Colonel Foster was consulted in the matter, and said the College could not buy them, because the Directory had made no appropriation for the purpose, but he told me that if these were of real scientific value to buy them and hold them until the Board could act in the matter. I have done so. There were a number of lots bought until the expense became about \$100. I kept a memorandum of it, but I am unable to find it now.

These fossils are certainly the finest of their class thus far found in Texas. I would be glad to learn whether or not the College wishes to purchase them. I am willing to dispose of the whole lot for \$100. It would be a pity to permit them to become scattered or to leave the State. Two or three specimens now in the collection I wish to reserve.

Respectfully submitted,

M. FRANCIS.

REPORT OF DEPARTMENT OF FARMERS' INSTITUTES.

COLLEGE STATION, TEXAS, June 3, 1904.

*David F. Houston, President Agricultural and Mechanical College,
College Station, Texas:*

DEAR SIR: In accordance with your request I herewith submit the following report of the work of the Department of Farmers' Institutes since January 1, 1904, when I took charge; also a summary of the work done by my predecessor, Professor Bennett.

PLAN OF CONDUCTING THE WORK.

On account of lack of funds for conducting this work and desiring to reach the greatest number possible, we have co-operated with the railroads of the State and their industrial agents, and have held institutes, with two or three exceptions only, along the line of railroads. The officials of the railroads of the State have not only been willing, but anxious to co-operate with this department in holding and organizing institutes and encouraging the farmers in every possible way to adopt more up-to-date methods in farming, the use of better seeds, better cultural methods for farm crops, the improvement of our live stock and developing the natural resources of the State, all of which means more prosperity for the farmer, more tonnage and increased freights and

consequently more profit for the railroad. The railroads at my request have furnished free transportation to all institute workers within the State.

In order to expedite the work and to secure the greatest efficiency and economy of service, we have adopted the plan of holding a series of meetings, making from six to twelve places (the county seats where possible), along a certain railroad rather than going from one road to another. As many as three speakers attend each meeting. Sometimes two sessions are held, one in the morning and one in the afternoon.

ADVERTISING THE MEETINGS.

We have used every means of thoroughly advertising the meetings in advance. We have done this:

1. By writing the county officials a personal letter asking them to advertise the meetings.
2. By requesting the county papers to give the meeting due publicity.
3. By sending out attractive posters giving time and place of meetings, list of the speakers and the subjects to be discussed.
4. By personal letters to prominent farmers who reside in the community in which the institute is to be held.

THE SPEAKERS AND INSTITUTE WORKERS.

The College professors and their assistants have contributed a great deal to the work in holding institute meetings and delivering scientific and practical lectures covering a wide range of agricultural and horticultural topics. We have also secured the services of quite a number of successful and practical farmers of the State who have made a marked success along certain specific lines in agriculture. These speakers have proven very valuable institute workers and are highly appreciated by the farmers. Local talent is always encouraged. The asking and answering of questions at the meetings is encouraged and much valuable information imparted in this way.

SUBJECTS DISCUSSED.

Appended you will find a list of the speakers, also giving dates, place and subject discussed: Cotton, varieties and culture; seed selection; fertilizers; insect pests; the hog, cattle and sheep industry; forage crops; orchard and orcharding; care and management of an orchard; truck and fruit crops; the home garden; Irish potatoes; dairying industry; college and experiment station work; industrial education; agriculture in our public schools have been given a prominent place on the program.

ORGANIZATIONS.

About seventy county Farmers' Institutes have been organized since

September 1, 1903. A complete list of the officers and members of these institutes will be kept in my office.

These county and local institutes meet as a rule once each month, and have a regular program for discussion. I have encouraged them at their meetings to take up one main subject and thoroughly discuss it rather than have several short discussions on as many subjects. For example, take the subject of cotton. Discuss best varieties for that section, cultural methods, seed selection, insect pests, etc. After thoroughly discussing the cotton question they can take up another crop.

Professor Bennett while in charge of the work published a constitution and by-laws which has been adopted by the organized institutes and furnished to them free of cost.

Suggestions for organizing Farmers' Institutes were also published by Professor Bennett. These have been sent to places where the people have become interested in the movement through the press and wanted an organization. In this way some organizations have been effected.

THE HELP OF THE PRESS.

The interest the press has taken in the work has been very gratifying to me. The daily and county newspapers have reported a synopsis of the speeches delivered and in several instances have sent a representative with the institute workers with instructions to make a full report of the meeting. The county papers have been very generous in giving space in their columns to advertise the meetings and to encourage a large attendance, also in making a full report of the speeches and discussions. While the attendance at these meetings have been good, averaging 100 persons, through the press the information contained in the addresses and discussions at the meetings have reached several thousands. It is our intention to keep the institute work before the people through the daily and agricultural press reporting from time to time progress in the work through the press notes or bulletins issued by the College.

THE FARMERS' INSTITUTE AN AID TO THE A. AND M. COLLEGE AND EXPERIMENT STATIONS.

The Farmers' Institutes, if conducted properly, will serve as a great factor in creating a desire for agricultural education. When farmers meet together and hear questions of vital importance to them discussed by trained college men and by practical farmers who have made marked success along certain lines of agricultural work, who have shown by actual demonstration that their methods are better and more lucrative than are those practiced by them, it will create a desire and thirst for more knowledge along agricultural lines. I have met in the past year many farmers who have said to me, "I wish that I had an A. & M. College education," and further stated that they were going to educate their boys at the A. & M. College. I believe we should encourage the teaching of agriculture in our country schools. This will stimulate a desire among the farmer boys for more knowledge in agriculture, and they will naturally come to the A. & M. College for it. The institute work will undoubtedly encourage a great many farmers to take advan-

age of the short course in agriculture given at the College, and in turn the short course student will stimulate the Farmers' Institute work in his respective community. We should encourage a very close relationship between the county institute and the A. & M. College. This can be done by instituting an agricultural reading course from the institutes and by the College professors meeting with the institutes as often as possible and by sending bulletins of the College and Experiment Station to members through their institute—the bulletins to be sent to the President or Secretary of the Institute and distributed at a regular meeting of the Institute.

STATE APPROPRIATIONS FOR FARMERS' INSTITUTES.

When we consider that Texas has 243 counties, 19,500,000 acres of improved lands, \$962,000,000 worth of farm property, 352,190 farms and thousands of farmers enthusiastically interested in the Farmers' Institute work and needing education along agricultural lines, how much should we ask the next Legislature for to do this much wanted and much needed work? Certainly not less than \$10,000 per annum. In order to show what some of the other States are doing for Farmers' Institutes, I respectfully call your attention to the following annual appropriations made for conducting institute work in the following States:

| | |
|---------------------|-------------|
| Illinois | \$18,150.00 |
| Michigan | 7,500.00 |
| Indiana | 10,000.00 |
| Minnesota | 18,000.00 |
| New York | 20,000.00 |
| Ohio | 16,749.54 |
| Pennsylvania | 15,000.00 |
| Wisconsin | 12,000.00 |
| North Dakota | 4,000.00 |
| West Virginia | 4,000.00 |

Without the help of the railroads in this work, by furnishing free transportation and occasionally a private car, and entertaining the speakers, we would not have held more than one-third of the institutes we have held. Should this great State be largely dependent upon a private corporation in carrying out so great a work?

FARMERS' INSTITUTE LECTURERS.

College Men:

- R. L. Bennett, A. & M. College.
- E. Dwight Sanderson, A. & M. College.
- E. J. Kyle, A. & M. College.
- E. C. Green, A. & M. College.
- Dr. G. S. Fraps, A. & M. College.
- R. F. Marshall, A. & M. College.
- Jno. A. Craig, A. & M. College.

F. S. Johnston, A. & M. College.
E. Scholl, A. & M. College.
C. S. Potts, A. & M. College.
H. H. Harrington, A. & M. College.
J. W. Carson, A. & M. College.

State Men:

R. E. Smith, Sherman, Texas.
John S. Kerr, Sherman, Texas.
E. W. Kirkpatrick, McKinney, Texas.
J. W. Kirkpatrick, McKinney, Texas.
W. J. Duffel, West, Texas.
Tom Frazier, Morgan, Texas.
Col. J. S. Davis, Waxahachie, Texas.
H. E. Singleton, McKinney, Texas.
J. H. Connell, Dallas, Texas.
Stanley H. Watson, Houston, Texas.
R. R. Clarridge, Palestine, Texas.
J. B. Brooks, San Antonio, Texas.
Welton Winn, Santa Anna, Texas.
Oswald Wilson, Fort Worth, Texas.
Wm. Doherty, Houston, Texas.
W. D. Bentley, Wichita Falls, Texas.
Fulton S. White, St. Louis, Mo.
Colonel Dide Bonner, Omen, Texas.
L. J. Berryman, Palestine, Texas.
Judge Bradley, Memphis, Texas.
Dr. S. A. Knapp, Houston, Texas.
Prof. Geo. W. Curtis, Houston, Texas.
Gustave Schleicher, Cuero, Texas.
J. L. Moody, Slayden, Texas.
C. A. Mitchell, Gonzales, Texas.

It is the intention of this department, with your approval, to publish a report which will give in full and detail the work done during the year, beginning September 1, 1903, and ending September 1, 1904.

In this report we will publish some of the addresses delivered and papers read at the Farmers' Institute meetings held in the different sections of the State.

I believe we should hold an annual Farmers' Institute meeting, and deem it especially desirable to have a meeting of the institute workers and lecturers. These meetings should be held at the College.

Very respectfully submitted,

J. W. CARSON,
Acting Director Farmers' Institutes.

REPORT OF FARMERS' INSTITUTE WORK CONDUCTED BY
THE AGRICULTURAL AND MECHANICAL COLLEGE OF
TEXAS IN CO-OPERATION WITH THE UNITED
STATES DEPARTMENT OF AGRICULTURE.

COLLEGE STATION, TEXAS, October 19, 1904.

Dr. W. J. Spillman, Agrostologist, Bureau of Plant Industry, Department of Agriculture, Washington, D. C.:

SIR: I herewith submit a report of the work of the Farmers' Institutes conducted by the Agricultural and Mechanical College of Texas in co-operation with the Bureau of Plant Industry of the United States Department of Agriculture.

On September 1, 1903, the Agricultural and Mechanical College of Texas, for the first time assumed formal charge of the institute work on behalf of the State of Texas. In order to carry on this work the Board of Directors of the College made an appropriation of \$1500 for the salary of a director, who was to give his entire time to the business of organizing and conducting institutes over the State. It also provided quarters and an office for the director and created the Department of Farmers' Institutes co-ordinate with the other departments of the College. Out of the available funds the Board appropriated \$1200 for running expenses. With these limited facilities the work was carried forward until the winter of 1904, when the Department of Agriculture made an appropriation of \$2500 out of the boll weevil appropriation to be expended under the supervision of the President of the College, Dr. D. F. Houston, as collaborator. In extending the scope of institute work with the larger means thus afforded, the work was prosecuted vigorously until late in the planting season, when it was thought best on account of the difficulty of securing sufficient attendance to discontinue the work until the fall of 1904.

OBJECTS.

The main object of the work was to acquaint farmers with the most approved cultural cotton methods with a view to aiding them in making a cotton crop in spite of the boll weevil; in general to induce them to adopt more up-to-date methods of farming, and to diversify their crops as far as possible.

PLAN OF THE WORK.

The localities which seemed to be most in need of the service of institutes were carefully selected and were distributed over the State with a view of reaching the greatest number of people. Every device for giving due notice of the meetings and for securing a large attendance was employed. Where institutes had already been organized the service of their members was enlisted, personal letters were written to county officials, to editors of county papers, to prominent, wide-awake farmers

residing in the communities, and programs giving times and places of meetings and list of speakers and subjects were issued.

CO-OPERATION OF THE RAILROADS AND THE PRESS.

The industrial department of the various lines of railway along which meetings were held were approached and readily gave their hearty assistance to the work. In most cases they furnished transportation to the speakers, and in some instances placed private cars at their disposal and frequently did extensive advertising. The press of the State, daily and weekly papers, rendered invaluable service in giving notice of meetings and in making satisfactory reports of the proceedings.

LECTURERS.

The lecturers comprised the Director of the Institute, Prof. J. W. Carson, in general charge of the work; practically all members of the Agricultural Department of the College, who attended meetings as their other duties permitted; a few of the special agents of the United States Department of Agriculture working in the State; industrial agents of railways; volunteer speakers in the various communities visited, and those appointed directly by the Department of Agriculture for this particular work. For a list of the speakers other than those of the College see appendix A.

The College speakers were Professors J. W. Carson, Director; R. L. Bennett, Cotton Expert; E. D. Sanderson, State Entomologist; E. J. Kyle, Horticulturist; R. F. Marshall, Animal Husbandry; John A. Craig, Animal Husbandry; F. S. Johnson, Farm Crops and Soils; L. H. Scholl, Entomologist; C. S. Potts, Industrial Education, and H. H. Harrington, Chemist.

A special point was made of encouraging local talent in every possible way.

SUBJECTS DISCUSSED.

For a summary list of subjects discussed, see appendix B.

For a list of the dates, places of meeting and speakers in attendance see appendix C.

For a detailed list of the meetings attended by individuals, showing dates, places, and subjects discussed, see appendix D.

ORGANIZATIONS OF INSTITUTES.

Wherever meetings were held institutes were organized, unless an organization already existed. Approximately seventy institutes were organized between September 1, 1903, and September 1, 1904. Appendix E furnishes a list of eighty-seven places in the State at which organized institutes exist and the names of the presidents and secretaries so far as we have been able to complete them to date. The Director furnished each of these institutes a printed circular embodying a form

for permanent organization, and wherever possible secured the names of the members themselves for filing and for our mailing list.

PLANS FOR THE YEAR 1904-5.

The Board of Directors have made an appropriation for the salary of the Director and \$1200 for running expenses for the year 1904-5. The plan of work will be substantially that of last year. It is assumed that the unexpended balance of the Federal appropriation of \$2500 will be available for supplementing the State appropriation; the assistance of the press and the railroads will again be invoked.

FUTURE OF THE WORK.

It is believed that no better work can be done by the agriculture agencies than that of immediately helping those actually engaged in farming, and that a system of Farmers' Institutes is a necessary supplement to other parts of the agricultural machinery. The work of the last year has undoubtedly resulted in great good, and must of necessity be continued on a larger scale. The Board of Directors of the College will endeavor to secure from the next Legislature an annual appropriation of \$10,000 for institute work.

Respectfully submitted,

J. W. CARSON,
Director.

APPENDIX.

LIST OF ORGANIZED FARMERS' INSTITUTES.

| Place. | President. | Secretary. |
|----------------------|--------------------------|-------------------|
| Lexington | Dr. A. C. Conner... | B. Hester |
| Ballinger | C. H. Willingham... | A. W. Sledge |
| Bryan | G. H. White..... | J. Webb Howell |
| Antioch | S. M. Griffin..... | L. L. Burkhalter |
| Atlanta | J. A. O'Niel | J. M. Fletcher |
| Marshall | John A. Polk..... | Wm. Blaylock |
| Gonzales | T. A. Mitchell..... | Fouts |
| Cuero | Gustave Schleicher | |
| Corpus Christi | | E. T. Merriman |
| Karnes City | W. I. Mayfield | August Deitze |
| Floresville | Conrad Lenox | J. O. Boehmer |
| Coleman | Welton Winn | J. E. McLelland |
| Lampasas | E. W. Long | J. E. Verner |
| Belton | Dr. J. D. Law | A. R. Crawford |
| Clifton | R. L. Scott | T. R. Broadstreet |
| Norse | J. N. Caldwell | C. O. Bronstad |
| Henderson | J. L. Welch..... | |
| Jacksonville | | |

| Place. | President. | Secretary. |
|---------------------|------------------------|-----------------|
| Georgetown | J. B. Salyer..... | ..... |
| Rockdale | J. D. Shelton | Chas. Hansen |
| McGregor | Dr. A. J. Sewell | J. B. Watkins |
| Franklin | J. W. Cox..... | M. K. Irwin |
| Jewett | K. M. Shepherd..... | D. C. Dove |
| Manor ..... | ..... | Eugene Bonner |
| Temple | P. L. Downs..... | ..... |
| Mexia | Jos. Stutenrach..... | Green W. Butler |
| Groesbeck | Jos. M. Stroud..... | A. W. Proctor |
| Kosse | J. A. Cain..... | Henry McGee |
| Calvert | Dr. Done Parker..... | Chas. Gordon |
| Corsicana | W. L. Bailey..... | ..... |
| Hearne ..... | ..... | ..... |
| Bremond | J. W. Moore | J. N. Dunegan |
| Waco | E. Falkner | T. O. Plunkett |
| Jefferson | H. B. Hall | D. D. Rowell |
| Goldthwaite | Dan Bush | Bob Thompson |
| Denison | A. B. Jackson..... | A. P. Mathews |
| Sherman | F. C. Vaden | Will Shelton |
| Giddings | Andrew Schotte | H. C. Joekel |
| Elgin | C. H. Carter | J. W. Thomas |
| McKinney ..... | ..... | ..... |
| San Marcos ..... | ..... | ..... |
| Lockney | Dr. Freeman | F. N. Oliver |
| Carrolton | G. N. Butler | V. N. Barton |
| Whitesboro | J. M. Buchanan | Geo. H. Wade |
| Milano | W. R. Dennis | I. A. Beard |
| Brenham | S. A. Morris | R. P. Thompson |
| Waxahachie | J. A. Davis | O. A. Finley |
| Fairfield ..... | ..... | ..... |
| Hubbard | W. O. Gray | T. J. Downey |
| Paducah | R. H. Foard | Orin Kelley |
| Decatur | J. W. Wallace | W. W. Halcomb |
| Alvord | A. Slaten | S. H. Miller |
| Sunset | J. F. Long | J. W. Miller |
| Bowie | W. L. White | Walton Worley |
| Henrietta | W. D. Bentley | Sirus Coleman |
| Wichita Falls | James Dowling | L. C. Tyson |
| Seymour | D. L. Kennan | Will Bigger |
| Iowa Park ..... | ..... | ..... |
| Vernon | J. A. Kinchelow..... | E. S. Hendrick |
| Chillicothe | W. O. Farrington..... | J. W. Norton |
| Quanah | J. F. Baker | J. H. Wilson |
| Claude | W. H. Burnette..... | H. J. Hanner |
| Childress | C. B. Jones | S. A. Shaw |
| Memphis | J. C. Wilson..... | W. A. Johnston |
| Rowe ..... | ..... | ..... |
| Clarendon | J. C. Sims | J. E. Cook |
| Wellington | C. B. Jones..... | W. D. Collins |
| Crowell ..... | ..... | ..... |

| Place. | President. | Secretary. |
|---------------------|----------------------|-------------------|
| Kaufman | E. E. Thompson..... | |
| San Antonio | A. Y. Walton..... | Alex Sinclair |
| Palestine | B. F. Noyes | J. B. Huff |
| Hereford | S. T. Howard..... | J. Ray |
| Kenesh | A. L. Clemons..... | B. R. Pounds |
| Sulphur Springs ... | J. F. Peck..... | |
| Pilot Point | J. L. Hensley | |
| Comanche | A. C. Crockett | C. D. Cuthbertson |
| Stevenville | J. R. Ellis | Jno. W. Gray |
| Brownwood | C. H. Ingram | Will G. Hays |
| Eastland | S. C. Barnes..... | T. M. Johnston |
| Dublin | Higginbotham | |
| Winsboro | | J. D. Richardson |
| McDade | W. T. Jeffries | D. R. LeMaster |
| Thornton | G. W. Black | W. W. Sellers |
| Wortham | D. D. Burleson..... | Roe Jones |
| Paige | Paul Hesklottz | J. E. Pauls |
| Ledbetter | Gus Franz | R. P. Hockworth |
| Caldwell | W. A. Duckworth..... | R. L. Joiner |

PLACES AND DATES OF MEETINGS, SUBJECTS, ETC.

COLLEGE STATION, TEXAS, May 30, 1904.

Mr. J. W. Carson, Superintendent Farmers' Institute, College Station, Texas:

DEAR SIR: In response to your request for a statement giving the number of institutes, subjects discussed, etc., I submit the following:

- October, 1902, Kaufman, Texas; subject, "Irish Potatoes."
- October, 1902, Quinlan, Texas, subject, "Irish Potatoes."
- October, 1902, Cooper, Texas; subject, "Irish Potatoes."
- November, 1902, Eastland, Texas; subject, "Truck Growing."
- November, 1902, Weatherford, Texas; subject, "Truck Growing."
- November, 1902, Abilene, Texas; subject, "Truck Growing."
- December, 1902, Lufkin, Texas; subject, "Growing Irish Potatoes."
- December, 1902, Nacogdoches, Texas; subject, "Growing Irish Potatoes."
- December, 1902, Shepherd, Texas; subject, "Growing Irish Potatoes."
- December, 1902, Timpson, Texas; subject, "Growing Irish Potatoes."
- January, 1903, to March 2, 1903, Luling, Texas; subject, "Truck Growing."
- January, 1903, to March 2, 1903, Seguin, Texas; subject, "Truck Growing."
- January, 1903, to March 2, 1903, Victoria, Texas; subject, "Truck Growing."
- January, 1903, to March 2, 1903, Castroville, Texas; subject, "Truck Growing."
- January, 1903, to March 2, 1903, Calvert, Texas; subject, "Raising Irish Potatoes."

January 17, 1903, Lufkin, Texas; subject, "Report of Troupe Station Operations."

January 18, 1903, Palestine, Texas; subject, "Strawberry Growing."

July 4, 1903, San Antonio, Texas; subject, "Dry Weather Truck Farming."

October, 1903, McDade, Texas; subject, "The Farmers' Institute Movement."

November, 1903, Calvert, Texas; subject, "Irish Potatoes."

November, 1903, Eastland, Texas; subject, "Bitter Rot of the Apple."

November, 1903, Canton, Texas; subject, "Bitter Rot of the Apple."

December, 1903, Hempstead, Texas; subject, "Relation of Farmers' Institutes to Agricultural Development."

December, 1903, Brenham, Texas; subject, "Relation of Farmers' Institutes to Agricultural Development."

December, 1903, Giddings, Texas; subject, "Relation of Farmers' Institutes to Agricultural Development."

December, 1903, McDade, Texas; subject, "Relation of Farmers' Institutes to Agricultural Development."

December, 1903, Elgin, Texas; subject, "Relation of Farmers' Institutes to Agricultural Development."

February, 1904, Thornton, Texas; subject, "Irish Potatoes."

February, 1904, Calvert, Texas; subject, "Truck Growing."

February, 1904, Timpson, Texas; subject, "Truck Growing."

February, 1904, Nacogdoches, Texas; subject, "Truck Growing."

February, 1904, Lufkin, Texas; subject, "Truck Growing."

February, 1904, Garrison, Texas; subject, "Truck Growing."

February, 1904, Lufkin, Texas; subject, "Results of Horticultural Experiments."

The above list covers most of the places at which lectures were made during the past two seasons. Trusting that this may be useful to you, I am,

Very respectfully,

E. C. GREEN

Institutes attended by Prof. E. J. Kyle:

Lone Star, Texas; subject, "Advantages of Organization."

Smithville, Texas; subject, "Truck and Fruit Growing."

Marlin, Texas; subject, "Truck and Fruit Growing."

Mexia, Texas; subject, "Truck and Small Fruit Culture."

Ledbetter, Texas; subject, "The Home Orchard."

Navasota, Texas; subject, "Truck Growing."

Bryan, Texas; subject, "Fruit and Truck Growing."

Calvert, Texas; subject, "Potato Culture."

Hearne, Texas; subject, "Truck and Potato Growing."

Nacogdoches, Texas; subject, "Thinning Fruit and Cultivation of the Orchard."

Beeville, Texas; subject, "How Plants Feed; Fruit Growing and Fertilizers."

Bremond, Texas; subject, "Fruit and Truck Growing."

Kosse, Texas; subject, "Potatoes and Fall Vegetables."

Corsicana, Texas; subject, "Truck and Fruit Growing."

Palestine, Texas; subject, "Truck and Fruit Growing."

Groesbeck, Texas; subject, "Truck and Fruit Growing."

Institutes attended by Prof. Scholl:

October, Bethel, Brazos County, Texas; subject, "Bees and Bee Keeping."

Institutes attended by Prof. R. L. Bennett:

October, 23, Welborn, Texas.

October 24, Ennis, Texas.

November 6 and 7, Eastland, Texas.

November 10 and 11, Canton, Texas.

November 12, Kaufman, Texas.

November 15, Calvert, Texas.

November 24, Hubbard, Texas.

November 28, Malley, Texas.

December 1, Greenville, Texas.

December 2, Sulphur Springs, Texas.

December 3, Pittsburg, Texas.

December 4, Dangerfield, Texas.

December 5, Jefferson, Texas.

December 8, Denton, Texas.

December 9, Gainesville, Texas.

December 10, Nocona, Texas.

December 11, Henrietta, Texas.

December 12, Wichita Falls, Texas.

December 14, Weatherford, Texas.

December 15, Fort Worth, Texas.

December 16, Fort Worth, Texas.

December 17, Arlington, Texas.

December 18, Waxahachie, Texas.

December 19, Hillsboro, Texas.

December 23, Marlin, Texas.

December —, Kosse, Texas.

December —, Houston, Texas.

December —, Mexia, Texas.

Subjects discussed by Prof. Bennett: "Institute Work, Cotton—Varieties," "Selection of Seeds and Breeding," "Hogs and Forage Crops, Alfalfa."

Farmers Institute meetings attended by Prof. E. Dwight Sanderson from September 1st to date:

October 24, Kerens, Texas.

November 11, Canton, Texas.

November 12, Kaufman, Texas.

November 13, Fairfield, Texas.

November 14, Groesbeck, Texas.

November 21, Athens, Texas.

December 1, Greenville, Texas.

December 2, Sulphur Springs, Texas.

December 3, Pittsburg, Texas.

December 4, Dangerfield, Texas.

December 10, Gonzales, Texas.

December 12, Hallettsville, Texas.

December 18, Fort Worth, Texas.

Subjects discussed by Prof. Sanderson: "The Mexican Cotton Boll Weevil, the Cotton Boll Worm, Chinch Bug."

Farmers' Institutes attended by Tom Frazier, President Texas Swine Breeders' Association, Morgan, Texas:

Hallettsville, Texas; Gonzales, Texas; Corpus Christi, Texas; Kerrville, Texas; Coleman, Texas; Belton, Texas; Eastland, Texas; Yoakum, Texas; Luling, Texas; Karnes City, Texas; San Angelo, Texas; Goldthwaite, Texas; Morgan, Texas; Cuero, Texas; Beeville, Texas; Floresville, Texas; Ballinger, Texas; Lampasas, Texas; Cleveland, Texas.

Subject discussed by Tom Frazier: "The Hog Industry in the South and Forage Crops."

In a letter addressed to me May 29, 1904, Mr. Frazier says: "At all of the Farmers' Institutes which I attended we had good attention and quite a lot of interest shown in the hog question. At some places a very large attendance. In my special line I found possibly the best 'missionary work' was done after meetings were adjourned when farmers felt more at liberty to question me. I believe the institutes to be the very best method of developing and creating an interest in the hog industry that could be adopted, and hope you will be in position to keep the good work going."

Farmers' Institutes attended by W. J. Duffel of West, Texas:

Denton, Texas; Henrietta, Texas; Arlington, Texas; Temple, Texas; Morgan, Texas; Gonzales, Texas; Comfort, Texas; Ballinger, Texas; Lampasas, Texas; Gainesville, Texas; Weatherford, Texas; Waxahachie, Texas; McGregor, Texas; Cleburne, Texas; Cuero, Texas; Kerrville, Texas; Coleman, Texas; Belton, Texas; Nocona, Texas; Fort Worth, Texas; Hillsboro, Texas; Clifton, Texas; Hallettsville, Texas; Beeville, Texas; San Angelo, Texas; Goldthwaite, Texas.

Subject discussed by Mr. Duffel: "Sheep Raising in Texas."

Farmers' Institutes attended by J. W. Carson:

October 23, Wellborn, Texas; subject, "Forage Crops."

November 6 and 7, Eastland, Texas; subject, "Feeds and Feeding."

November 10 and 11, Canton, Texas; subject, "Alfalfa and Forage Crops."

November 12, Kaufman, Texas; subject, "Varieties and Culture."

November 24, Hubbard, Texas; subject, "The Mexican Cotton Boll Weevil."

December 14, Hempstead, Texas; subject, "Cotton—Varieties and Culture."

December 15, Brenham, Texas; subject, "How to Grow Cotton Despite the Weevil."

December 17, Elgin, Texas; subject, "Cotton Insect Pests."

December 16, Giddings, Texas; subject, "How to Grow Cotton Despite the Weevil."

December 18, McDade, Texas; subject, "The Boll Worm and Boll Weevil."

January 11, Mexia, Texas; subject, "Farmers' Institute Work."

January 12, Groesbeck, Texas; subject, "Farmers' Institutes and Cotton Insect Pests."

January 13, Kosse, Texas; subject, "How to Grow Cotton Despite the Boll Weevil."

January 14, Bremond, Texas; subject, "How to Grow Cotton Despite the Boll Weevil."

January 15, Calvert, Texas; subject, "The Advantages of Organization."

January 16, Corsicana, Texas; subject, "Organization and How to Grow Cotton."

January 17, Franklin, Texas; subject, "Co-operative Dem. Work U. S. Government."

January 18, Granbury, Texas; subject, "Cotton, Culture and Varieties, the Boll Worm and Weevil."

January 19, Dublin, Texas; subject, "Cotton, Culture and Varieties, the Boll Worm and Weevil."

January 21, Stephenville, Texas; subject, "Cotton, Culture and Varieties, the Boll Worm and Weevil."

January 20, Tolar, Texas; subject, "Irish Potato and Other Truck Crops."

January 22, Comanche, Texas; subject, "Care and Management of Soils."

January 23, Brownwood, Texas; subject, "Alfalfa and Cotton."

January 21, Denison, Texas; subject, "Truck Crops."

January 26, Sherman, Texas; subject, "Selection of Planting Seed."

February 2, Hallettsville, Texas; subject, "Irish Potatoes."

February 3, Hallettsville, Texas; subject, "Boll Weevil and Boll Worm."

February 6, Lexington, Texas; subject, "Farmers' Institutes and Organization."

February 8, San Antonio, Texas; subject, "The Boll Weevil Situation."

February 13, Waxahachie, Texas; subject, "Cotton—Culture and Varieties."

February 16, Palestine, Texas; subject, "Forage Crops and Fertilizers."

February 19, Hereford, Texas; subject, "Cotton Growing in the Panhandle."

February 20, Hereford, Texas; subject, "A. and M. College Work."

February 22, Clarendon, Texas; subject, "Organization, Diversification and Cotton."

February 23, Memphis, Texas; subject, "Organization, Diversification and Cotton."

February 24, Vernon, Texas; subject, "Organization and Soil Moisture."

February 25, Quanah, Texas; subject, "Organization and Soil Moisture."

February 27, Denison, Texas; subject, "Cotton, Co-op. Dem. Government Work."

February 29, Sherman, Texas; subject, "Cotton—Varieties and Culture."

March 7, Hempstead, Texas; subject, "Organization, Fertilizers and Selection of Planting Seed."

March 8, Bryan, Texas; subject, "Organization, Fertilizer and Selection of Planting Seed."

March 9, Carmine, Texas; subject, "Fertilizers, Irish Potatoes, Cultural Methods for Cotton."

March 10, Giddings, Texas; subject, "Cotton—Selection and Breeding."

March 11, Elgin, Texas; subject, "Organization, Diversification and Plant Breeding."

March 12, Manor, Texas; subject, "Care and Management of Soils."

March 18, San Marcos, Texas; subject, "Co-op. Dem. Work U. S. Government."

March 19, Kyle, Texas; subject, "Farmers' Institutes—Its Advantages."

March 21, Georgetown, Texas; subject, "Farmers' Institutes."

March 23, Rockdale, Texas; subject, "Fertilizers for Cotton."

March 24, Jewett, Texas; subject, "Farmers' Institutes."

March 25, Jacksonville, Texas; subject, "Diversification and Forage Crops."

March 26, Henderson, Texas; subject, "Organization and Cotton."

March 29, Temple, Texas; subject, "Farmers' Institutes."

March 30, McGregor, Texas; subject, "Alfalfa and Other Forage Crops."

March 31, Clifton, Texas; subject, "Alfalfa and Other Forage Crops."

April 4, Hallettsville, Texas; subject, "Cotton."

April 7, Cuero, Texas; subject, "Cotton."

April 8, Gonzales, Texas; subject, "Alfalfa and Forage Crops."

April 11, Beeville, Texas; subject, "Cotton and Cotton Insect Pests."

April 12, Corpus Christi, Texas; subject, "Farmers' Institutes, Co-op. Government Work."

April 13, Karnes City, Texas; subject, "How to Grow Cotton Despite the Weevil."

April 14, Floresville, Texas; subject, "Creameries and Co-operation for the Farmer."

April 25, San Angelo, Texas; subject, "Farming Without Rain."

April 26, Ballinger, Texas; subject, "Farmers' Institutes and Their Work."

April 27, Coleman, Texas; subject, "Cotton, Co-op. U. S. Government Work."

April 28, Goldthwaite, Texas; subject, "Cotton, Co-op. U. S. Government Work."

April 29, Lampasas, Texas; subject, "Farmers' Institute Work and Seed Selection."

April 30, Belton, Texas; subject, "Farmers' Institute Work and Seed Selection."

May 2 and 3, Beeville, Texas; subject, "Irish Potatoes and Fertilizers."

May 7, Marshall, Texas; subject, "Organization and the Cotton Boll Weevil."

May 13 and 14, Wichita Falls, Texas; subject, "Industrial Education for Our Boys and Girls."

Farmers' Institutes were held at the following places:

October 23, Wellborn, Brazos County, Bennett and Carson.

October 24, Ennis, Ellis County, Bennett.

November 10, Navasota, Grimes County, Kyle and Marshall.

November 7, Waco, McLennan County, Prof. Harrington.

October 6 and 7, Eastland, Eastland County, Bennett, Carson and Green.

October 10 and 11, Canton, Van Zant County, Bennett, Carson and Green.

November 12, Kaufman, Kaufman County, Bennett, Carson and Green.

November 14, Fairfield, E. D. Sanderson.

November 15, Calvert, Robertson County, Green, Bennett and Johnston.

November 24, Hubbard, Hill County, Carson and Bennett.

November 28, Waller, Waller County, Harrington and Bennett.

December 10 and 11, Gonzales, Gonzales County, Sanderson and Babcock.

December 12, Hallettsville, Lavaca County, Sanderson and Babcock.

December 1, Greenville, Hunt County, Bennett and State men.

December 2, Sulphur Springs, Hopkins County, Bennett and State men.

December 3, Pittsburg, Camp County, Bennett and State men.

December 4, Dangerfield, Morris County, Bennett and State men.

December 5, Jefferson, Marion County, Bennett and State men.

December 9, Gainsville, Cooke County, Bennett and State men.

December 10, Nocona, Montague County, Bennett and State men.

December 11, Henrietta, Clay County, Bennett and State men.

December 12, Wichita Falls, Wichita County, Bennett and State men.

December 14, Weatherford, Bennett and State men.

December 15 and 16, Fort Worth, Tarrant County, Bennett and State men.

December 17, Arlington, Tarrant County, Bennett and State men.

December 18, Waxahachie, Ellis County, Bennett and State men.

December 19, Hillsboro, Hill County, Bennett and State men.

December 14, Hempstead, Waller County, Carson, Green and Fraps.

December 15, Brenham, Washington County, Carson, Green and Fraps.

December 16, Giddings, Lee County, Carson, Green and Fraps.

December 17, Elgin, Bastrop County, Carson, Green and Fraps.

December 18, McDade, Bastrop County, Carson, Green and Fraps.

October 24, Kerens, Sanderson.

November 14, Groesbeck, Limestone County, Sanderson.

November 21, Athens, Sanderson.

January 11, Mexia, Limestone County, Carson, Kyle, Watson and Doherty.

January 12, Groesbeck, Limestone County, Carson, Kyle, Watson and Doherty.

January 13, Kosse, Limestone County, Carson, Kyle, Watson and Doherty.

January 14, Bremond, Robertson County, Carson, Kyle, Watson and Doherty.

January 15, Calvert, Robertson County, Carson, Kyle, Watson and Doherty.

January 16, Corsicana, Navarro County, Carson, Kyle, Watson and Doherty.

January —, Franklin, Robertson County, Carson, Curtis and Palmer.

January 18, Granbury, Hood County, Carson, White and Brockman.

January 19, Dublin, Erath County, Carson, White and Brockman.

January 20, Tolar, Carson, White, Comer and Brockman.

January 21, Stephenville, Erath County, Carson, White, Kerr and Brockman.

January 22, Comanche, Comanche County, Carson, White, Kerr and Brockman.

January 23, Brownwood, Brown County, Carson, White, Kerr and Brockman.

January 25, Denison and Sherman, Grayson County, Carson and White.

February 2, Hallettsville, Lavaca County, Carson and McHenry.

February 3, Hallettsville, Lavaca County, Carson and McHenry.

February 6, Lexington, Lee County, Carson.

February 8, San Antonio, Bexar County, Dr. Knapp and Carson.

February 13, Waxahachie, Ellis County, Carson, Curtis and Marshall.

February 16, Palestine, Anderson County, Carson, Curtis and Kyle.

February 19, Hereford, Deaf Smith County, Carson and Marshall.

February 20, Hereford, Deaf Smith County, Carson, Marshall and Curtis.

February 22, Clarendon, Donley County, Carson, Marshall and Wilson.

February 23, Memphis, Hall County, Carson, Marshall, Bentley and Wilson.

February 24, Vernon, Wilbarger, Carson, Marshall, Bentley and Wilson.

February 25, Quanah, Hardeman County, Carson, Bentley and Bradley.

February 25, Childress, Childress County, Marshall and Wilson.

February 27, Denison, Grayson County, Carson, Smith and Craig.

February 29, Sherman, Grayson County, Carson, Connell, Craig and Smith.

March 7, Hempstead, Waller County, Carson and Evans.

March 8, Bryan, Brazos County, Carson, Kyle, Fraps and Green.

March 9, Carmine, Fayette County, Carson and Evans.

- March 10, Giddings, Lee County, Carson, Evans and Singleton.
 March 11, Elgin, Bastrop County, Carson, Evans and Singleton.
 March 12, Manor, Travis County, Carson, Evans and Singleton.
 March 16, Devine, Medina County, Carson, Singleton and Berryman.
 March 17, New Braunfels, Comal County, Carson, Singleton and Palmer.
 March 18, San Marcos, Hays County, Carson, Singleton and Berryman.
 March 29, Kyle, Hays County, Carson, Singleton and Berryman.
 March 22, Taylor, Carson and Berryman.
 March 21, Georgetown, Williamson County, Carson, Singleton and Berryman.
 March 23, Rockdale, Milam County, Carson, Singleton and Berryman.
 March 24, Jewett, Carson, Singleton and Palmer.
 March 25, Jacksonville, Cherokee County, Carson, Singleton and Bonner.
 March 26, Henderson, Rusk County, Carson, Clairidge and Bonner.
 March 29, Temple, Bell County, Smith, Duffel, Davis and Carson.
 March 30, McGregor, McLennan County, Carson, Davis, Duffel and Falkner.
 March 31, Clifton, Bosque County, Carson, Davis, Duffel and Kirkpatrick.
 April 4, Hallettsville, Lavaca County, Carson, Duffel and Frazier.
 April 6, Yoakum, De Witt County, Carson, Duffel and Frazier.
 April 7, Luling, Caldwell County, Carson, Duffel and Frazier.
 April 8, Gonzales, Gonzales County, Carson, Duffel and Frazier.
 April 9, Cuero, De Witt County, Carson, Duffel and Frazier.
 April 11, Beeville, Bee County, Carson, Duffel and Frazier.
 April 12, Corpus Christi, Nueces County, Carson, Duffel and Frazier.
 April 13, Karnes City, Carson, Duffel and Frazier.
 April 14, Floresville, Wilson County, Carson, Duffel and Frazier.
 April 15, Kerrville, Kerr County, Carson, Duffel and Frazier.
 April 16, Comfort, Kendall County, Carson, Duffel and Frazier.
 April 1, Morgan, Bosque County, Duffel, Frazier, Kerr and Kirkpatrick.
 April 2, Cleburne, Johnston County, Duffel, Kerr and Smith.
 April 12, Henrietta, Clay County, Singleton, Smith, Kerr and Davis.
 April 13, Gainsville, Smith, Kerr, Davis and Kirkpatrick.
 April 14, Whitesboro, Grayson County, Smith, Kerr, Davis and Craig.
 April 15, Pilot Point, Denton County, Smith, Kerr, Davis and Craig.
 April —, Denton, Denton County, Davis and Kerr.
 April 18, Carrollton, Dallas County, Davis, Kerr and Smith.
 April 19, Whitewright, Davis, Kerr and Singleton.
 April 20, Greenville, Hunt County, Davis, Kerr and Singleton.
 April 21, Jefferson, Marion County, Davis, Kerr and Singleton.
 April 22, Pittsburg, Camp County, Davis, Kerr and Singleton.
 April 23, Winnsboro, Wood County, Davis, Kerr and Singleton.
 April 25, Sulphur Springs, Hopkins County, Davis, Kerr and Singleton.
 April 25, San Angelo, Tom Green County, Carson, Duffel and Frazier.
 April 26, Ballinger, Runnels County, Carson, Duffel and Frazier.

April 27, Coleman, Coleman County, Carson, Duffel and Frazier.

April 28, Goldthwaite, Mills County, Carson, Duffel and Frazier.

April 29, Lampasas, Lampasas County, Carson, Duffel, Frazier and Watson.

April 30, Belton, Bell County, Carson, Duffel and Frazier.

May 2 and 3, Beeville, Bee County, Carson and Kyle.

May 7, Marshall, Harrison County, Carson and Pope.

May 13, Wichita Falls, Wichita County, Carson Knapp and Connell.

May 14, Wichita Falls, Wichita County, Smith, Singleton and local speakers.

May 18, Caldwell, Burleson County, Potts and Carson.

May —, Bethel, Brazos County, Scholl.

June 4, Waco, McLennan County, Duffie and local speakers.

EXPERIMENT STATION.

REPORTS OF SECTIONS.

CHEMISTRY SECTION.

May 20, 1904.

Director J. A. Craig, Agricultural Experiment Station:

DEAR SIR: In accordance with your request, I herewith present a report of the work of the Chemical division of the Experiment Station for the past year.

The writer entered on his duties September 1, 1903, and was left in charge of this division by Prof. Harrington when he started for Germany in December, 1903, on leave of absence.

The work of the past year may be discussed under three heads:

"Composition of Feeding Stuffs," "Soil Studies," and "Miscellaneous."

COMPOSITION OF FEEDING STUFFS.

Composition of Cotton Seed Meal.—Samples of cotton seed meal were collected from different parts of the State, and forty-six samples analyzed for nitrogen and fat. As a result of the work was established the fact that Texas meals are, as a rule, richer in nitrogen than meals of other sections. Furthermore, a very striking relation between the composition of the meal and the section of the State from which it came was exhibited. This work was published as Bulletin No. 70.

Composition of Rice By-products.—Complete analysis was made of sixteen samples of rice by-products, partial analysis of four samples, and examination of six samples of hulled rice for percentage of hulls. The result of the work is to give a clear idea of the composition of rice bran and polish. The work is ready for publication.

SOIL STUDIES.

Typical Texas Soils.—By co-operation with the Bureau of Soils of the United States Department of Agriculture, a number of samples of typical Texas soils have been received, and more will be received as the work of mapping the soils of Texas progresses. It is planned that these samples be subjected to exhaustive chemical study, supplemented by pot and co-operative field experiments. The work has already begun. It is believed that the work will lead to conclusions which will form a reasonable basis for recommendations as to fertilizers adapted to crops on different types of soils. It is hoped that they will also lead to suggestions for general improvements in tilling the soil. Thirty-six samples of soils have been received.

Rice Soils and Irrigation Water.—Ten samples of rice soils have been collected and are in course of analysis, with a view of ascertaining the amount of plant food contained in them and obtaining other information. The plan of the investigation involves the study of rice irrigation waters, both for quality and contents of plant food. The draft of the rice plant upon the soil will also be ascertained.

Nitrification in Soils.—The fertility of a soil depends to a large extent on the rapidity with which the unavailable nitrogen compounds in the soil are transformed to bodies which can be taken up by plants, chiefly nitrates and ammonium salts. It has been shown by the writer that great difference exists in the power of different soils to form nitrates, and work now under way promises to throw light upon some very important problems in connection with the fertility of the soil, and it is hoped will lead to methods for controlling the supply of available nitrogen. The work is now being carried on.

In connection with this work a study has been made of the fertilizing value of different forms of nitrogen, which is nearly completed.

MISCELLANEOUS WORK.

Methods of Analysis.—The writer served as referee on ash for the Association of Official Agricultural Chemists in the year 1902-03, and a report of the work will be found in the proceedings of the annual meeting, November, 1903. Two samples were analyzed for sulphur in connection with this work. For the year 1903-04, he has been appointed associate referee in potash.

Miscellaneous Analyses.—In order to secure results it is necessary to concentrate upon definite lines of work, instead of dissipating energy upon miscellaneous samples. Samples of general interest may be analyzed free of charge when the work does not interfere with more important work, but samples of individual benefit only are refused. It would be possible to occupy our entire time with various analyses, without much results of general benefit. The following miscellaneous samples have been examined: Four soils for alkali, two wheat brans for adulteration; one sample of sour soil; one sample sugar beets, three minerals for identification.

Correspondence.—The letters received related chiefly to fertilizers, composition of rice by-products and cotton seed meal.

Farmers' Institutes.—Seven institutes were attended, and talks made chiefly on fertilizers and soil fertility. A limited amount of institute work is beneficial to the investigator.

WORK PLANNED.

The study of typical Texas soils will be carried on as rapidly as time and means allow.

The irrigation interests of the State are becoming yearly of greater importance. It is believed that some of the irrigation waters in use are of doubtful quality. The importance of the subject calls for a great amount of chemical work.

NEEDS OF THE DIVISION.

Sets of some important journals, relating to agricultural chemistry are needed in the library.

In view of the many agricultural problems which require chemical attention in Texas, it would be advisable to add another assistant.

A vegetation house is needed for pot experiments with Texas soils. It would require about \$1000.

The appropriation for running expenses should be increased, if possible.

Very respectfully,

GEO. S. FRAPS,
Acting Chemist.

VETERINARY SECTION.

COLLEGE STATION, May 20, 1904.

Mr. John A. Craig, Director of Experiment Station.

SIR: I have the honor to submit the following report as Veterinarian of the Experiment Station. Our work during the past year has been a continuation of our efforts on the Texas fever problem. I made quite a number of experiments with the sub-cutaneous and intra-venous injection of the soluble salts of quinine to see if we can really control the disease. I regret to say that we made a miserable failure in every instance. I also tried the sub-cutaneous injection of the blood serum of the horse for this purpose. To the animals we gave doses of 25cc, 100cc, 250cc, 500cc and 1000cc daily, but it seemed to have no effect whatever. I will not trouble you with the details at this time.

During the year a very fatal disease of horses occurred commonly

called "blind staggers." We devoted considerable time and energy to this subject and I think we can show quite clearly that it is a brain disease, and that it is not of a contagious nature.

I have written this matter up and submit it with this report. A photograph showing the changes in the brain is also submitted.

The annual appropriation from station funds has for some years been \$1000. This amount was reduced to \$800 the past year, and I find that we have exceeded that amount about \$125. The point I want to make is that I am unable to do our veterinary work with less than \$1000 annually, so that I would suggest that the original amount of \$1000 be restored.

In a previous report I called attention to the lack of a convenient and suitable barn for our work. I have recently called the attention of the President to this matter and have asked that we be given \$5000 for this purpose.

I have also asked the President for a few months leave of absence that I may visit the veterinary colleges of Europe this summer

I also present an inventory of the station property.

Respectfully submitted,

M. FRANCIS,
Veterinarian.

HORTICULTURAL SECTION.

(See Report of Department of Plant Husbandry.)

ENTOMOLOGY SECTION.

May 19, 1904.

*Prof. John A. Craig, Director Texas Agricultural Experiment Station,
College Station, Texas:*

DEAR SIR: I have the honor to submit the following report as Consulting Entomologist of the Experiment Station for the year 1903-04.

The correspondence referred to this office by you has been answered, insects determined and advice given concerning combating insect pests. No record of the amount of such correspondence has been made.

No experiments or investigations have been conducted under the direction of the Experiment Station, they being conducted with funds appropriated this department by the College.

Considerable difficulty has arisen concerning the cultivation of crops for experimental work of this department. The present arrangement, whereby the station pays for a laborer who cultivates the crops under our direction, we furnishing team and tools and reimbursing the station for the actual cost of the operations, seems to be satisfactory, and I

would suggest that this department be made a department of the Experiment Station, so that this arrangement may properly be continued. I would also suggest the advisability of designating particular plots for the use of this department. Work upon insects must very largely be co-operative with that of other departments growing crops. At present we have experiments upon crops grown both by the Horticultural department and with Professor Johnston.

During the past year the following publications have been issued:

Circular No. 4.—“How to Combat the Mexican Boll Weevil in Summer and Fall.” August 10, 1903.

Circular No. 5.—“Cut Worms.” March 1, 1904.

Circular No. 6.—“Two Plum Weevils.” April 1, 1904.

Circular No. 7.—“Grasshoppers.” April 1, 1904.

Circular No. 8.—“The Cotton Boll Weevil in Texas.” April 15, 1904. (Reprint of a paper delivered before the Association of Economic Entomologists, and Society for the Promotion of Agricultural Science, St. Louis, Mo., December 30, 1903.)

Circular No. 9.—“Direction for Mailing Insects.” April 15, 1904.

Of these publications Circular No. 4 was issued in an edition of 15,000 copies from the funds of and circulated by the Experiment Station. The other circulars have been printed in smaller editions and circulated by this office to the newspapers and correspondents. Copies of these publications are appended. The bulletin upon “Insects Mistaken for the Mexican Cotton Boll Weevil,” the “Life and Habits of the Boll Weevil and How it May be Combated,” is now in your hands ready for publication.

This office has no funds available for the issue of publications, either bulletins or an annual report. A somewhat lengthy report covering the investigations of the last two seasons will be ready for publication this fall, and if the Experiment Station can make provision for it, it will be worthy of publication. Experiments in apiculture are being conducted by us, and we will be prepared to furnish material for a bulletin from that department during the coming year, if desired.

In my report to the President, I have suggested the advisability of having an assistant for the greater part of the year at the Beeville substation for studying insect pests affecting the truck crops of South Texas and experimenting with means for their control. He might also have charge of experiments in the control of plant diseases. We find it very difficult, if not impossible, to make a proper study of the insect problems of the South Texas truck industry here at College Station. Such a man might be located at Beeville during the greater part of the year and also assist in Farmers' Institutes in that section of the State. This is a matter which should properly be under the direct management of the Experiment Station.

Other features of the work of this department are outlined more fully in my biennial report made to the President of the College.

Yours very truly,

E. DWIGHT SANDERSON.

REPORT OF AGRICULTURIST.

COLLEGE STATION, TEXAS, May 25, 1904.*To Director John A. Craig, College Station, Texas:*

DEAR SIR: The report of the Agricultural department herewith submitted covers the time from September 1, 1903, to date. The department has been chiefly occupied in conducting field experiments. A share of attention has been given to the laying out of future experiments in the field work of the station and a considerable portion of the time of the Agriculturist has been devoted to general work of the station.

NEW EXPERIMENT PLATS.

During the early part of the past year thirty-one acres have been platted for field work of this station. The plats are laid out with inter-spaces and are provided with rows which surround the borders and which pass between each acre section thus giving opportunity for cultivation and examination. Each plat is 90x242 feet containing an exact one-half acre. The spaces between the half acre plats in the acre sections are eight feet in width. In order that the location of the plats might be secure three feet 1½ iron gas piping was driven at the corner of each half acre. The design of the plats is so arranged that the inter-spaces will prevent any outside exposure. The driveways will give access to and permit work upon the plats without interfering with any other plat. It is deemed necessary to make the plats of one-half acre each in order to get a thoroughly proper test from the land devoted to this work. The accompanying blue print shows the survey of the Experiment Station field giving boundaries and showing the particular crop to which each plat is devoted.

DESCRIPTION OF PLATS.

It will be noted that this Experiment Station field is designed to carry on experiments on varieties of corn, depth of breaking for corn and depth of cultivation for corn. Rotations involving two, three and five courses are provided for. Several different kinds of forage crops are being tested with a view to determining their fitness for the soil and climate found in this section of Texas. It is intended also to carry on in connection with the experimental work already outlined, an experiment involving the efficiency of cow peas as an organic fertilizer for the post oak soils. The crop of the present year would serve as a check or basis upon which to base future results.

TROUPE AND BEEVILLE SUB-STATIONS.

The work of the Agriculturist at the Troupe sub-station has been a

continuation of the work of last year at that station. At Beeville work directly under the supervision of the Agriculturist has been in progress during the past year.

CO-OPERATIVE WORK.

During the past year the work begun in 1902 at New Hope, Texas, under the direction of the United States Department of Agriculture and the Texas Experiment Station has been continued. While this work has on the whole been successful, it is felt that either a closer co-operation should be effected or the work discontinued. It would seem that a system of experimental work by which the station might come into closer touch with the active operations of the farmer would be much more effective than the present method. Along this line I would recommend that cultural tests with corn, variety tests with wheat and oats and experiments to further improve the forage crops of the State be substituted for the present co-operative work. In addition to the above recommendation a closer co-operation with the United States Department of Agriculture would be desirable. This co-operation should enable us to carry on more effective work along the lines of soil and crop investigations.

STATION BARN.

Under present conditions the work of the Agricultural section is somewhat handicapped by lack of storage room for implements and tools and for the proper accommodation of seeds of all kinds. I would therefore recommend that some provision for this purpose be made.

ASSISTANCE.

In order to properly carry on the work now in progress and to provide for extension additional assistance will be needed, particularly along lines of farm engineering and crop work. We are unable at the present time to give this line of work the attention it merits.

Respectfully submitted,

F. S. JOHNSTON.

REPORT OF MYCOLOGIST.

Prof. John A. Craig, Dean and Director, College Station, Texas:

SIR: In accordance with your request I have the honor to submit herewith my annual report as Mycologist to the station.

It is scarcely possible to compare the work of the past session with that of the preceding since I have but lately had charge of the work

here, nor can I compare the prevalence of plant diseases in the State during the year with that of the past.

The large number of letters received during the year from all parts of the State containing inquiries about the nature of different plants, of certain plant diseases and the remedies therefor, show that the farmers take a lively interest in such matters and are in need of instruction in matters regarding economic botany and mycology.

I mention a few of the many diseases reported and also some of the other matters that are the subject of much inquiry, and would point out the urgent need of proper attention being given them.

Crown gall of peaches has been reported from many sections and is apparently causing great losses, especially throughout the eastern and northeastern portions of the State. Since this is a trouble primarily originating in the nursery, supervision of nurseries should be urged upon the State. It seems to be conceded that when an orchard is once affected total eradication is impossible. However, investigations are now under way, in conjunction with the Department of Horticulture, and it is hoped that good will result therefrom.

Investigations of the cotton "wilt" have been projected for the coming summer, together with certain other apparently physiological disturbances of the cotton plant.

Much loss from the ravages of "late blight" of potatoes has been reported. The truck growers of Beaumont, Texas, have reported the prevalence of "white rust" of mustard and lettuce which, in many cases, has caused the loss of a great part of the crop. Material for a bulletin on this disease has been prepared and is ready for issue. Many specimens of diseased peach, pear, grape and persimmon have been received from different sections indicating that these troubles are widely spread. Owing to the want of bulletins of this station on these subjects the inquiries have been answered according to the nature of the individual case. I would suggest, in this connection, the advisability of issuing a bulletin on fruit and fruit tree diseases and their remedies as soon as possible.

Many inquiries have also been made as to the nature of certain plants suspected of being noxious weeds. Specimens of Canada thistle have been sent from points in the northwest along the railroads. This weed demands attention, and the farmers of those sections should be instructed as to its highly pernicious character and as to means of eradication. "Cheat" of oats and wheat has been found at certain points, notably near Gainesville. It is claimed that this grass developed from seed oats purchased from dealers in seeds. In some cases two-thirds of the crop of oats were lost by its presence.

Data for a bulletin on the pernicious and poisonous weeds of Texas and hints as to their eradication are being prepared and will be published as soon as possible.

I would recommend that the investigation of fungus pests in the State be pushed with all possible energy in order that relief may be offered those who suffer from their ravages and that the sum set aside for this purpose be increased to \$500.

Correspondence on all subjects relating to economic botany and plant pathology is earnestly and cordially requested. Wherever possible reme-

dies will be suggested in cases of such diseases and suggestions for the extermination of noxious weeds given. It is especially important to secure specimens of these troublesome weeds and fungi from all parts of the State and farmers and others interested are invited to send such to the station for examination, in order that they may be detected and the proper remedy applied before the trouble has grown to large proportions.

Very truly yours,
S. M. BALL,
Professor of Botany and Mycology.

ANIMAL HUSBANDRY SECTION.

To the Director:

I herewith submit the report of the Animal Husbandry section for the year past.

Since the commencement of the work in October it has been impossible to carry on such an amount of work and in such a way as would be desirable in consideration of the live stock interests of the State.

One of the first things to which attention is directed is the need for the encouragement of and dissemination of information in regard to the raising of swine. An experiment to show the relative cost of growing swine on forage crops and in a dry yard has been begun, using in all seventy hogs. As the various forage crops planted for this experiment become large enough for grazing, opportunity will be afforded to compare the values of those crops as well as exemplifying the economy of using a growing crop for fattening swine.

The increasing number of persons going into the business of feeding cattle and the great number of practically untested feeds becoming available are conditions which necessitate extensive and careful experimentation. With the steers furnished the station during the past winter three different lines of work have been commenced:

First. A comparison of the values as forms of roughage in combination with cotton seed meal and rice bran, of sorghum hay, cow pea hay, peanut hay, alfalfa and cotton seed hulls. This experiment has been completed and the results are ready for publication.

Second. A duplication of last year's test of rice bran as feed for fattening steers has been conducted. Two separate bunches of ten cattle each have been divided into two lots, one-half receiving cotton seed meal and hulls, the other the same with rice bran in addition in each case. This trial will be complete in the third week in May and the results included in the bulletin treating of the roughages.

The yearling steers which we received are being used in a study of the values of different rations for summer feeding of cattle on grass, also affording opportunity to compare the cost of grains made by cattle on grass with those made in the lot.

Of these experiments now in progress at least two will extend into

the next fiscal year. The very high prices of feed stuffs now prevailing therefore necessitate an increase in amount of funds set apart for this work.

There is also very great need of accommodations for experimental work separate from the farm buildings, not only to insure more favorable conditions for animals employed in experiments, but to remove the difficulty experienced by one man's having to feed both farm and station stock, rendering it impossible to properly separate farm and station accounts. Inasmuch as a part of the experimental work done in future will be in co-operation with the Farm Husbandry section in grazing off of forage crops and feeding of crops under test, the erection of a suitable building in proximity to the land used by the Farm Husbandry section is a great necessity.

Up to this time the dairy herd having been under the management of the farm, but little has been done in the way of experimental feeding. With the present system of recording the production of the cows individually, some valuable data regarding the effect upon milk production of rations such as sorghum silage and cotton seed meal, peanut hay and corn, and cow pea hay in combination with various concentrates might be obtained. To do this it would be necessary for the Experiment Station to employ a competent feeder or to pay one-half the wages of a well qualified dairy herdsman.

In studying the nutritive value of many of the crops now coming into use in our State for feeding purposes, it is impossible to secure reliable data regarding their composition and digestibility. Among such crops may be mentioned sorghum hay, peanut hay, milo maize, rice products and molasses. These feeds we could furnish to the Chemical department, also supply the required animals if the work could be done during the next year.

A line of work which should be made the subject of our study next year is that of the use of cotton seed meal and corn in fattening steers, having in view a determination of the proportions in which it would be most profitable to use the feeds mentioned. Inasmuch as in those parts of the State where greatest attention is being given to finishing cattle, Kaffir corn and milo maize are used. These should be fed, in part at least, in the experiment.

Much valuable data might be collected from the feeders in the State. To secure such in a usable form it is necessary to have careful weighings made of stock fed and the feeder is often unprepared to do this. Furthermore, to secure such data in such form that it can be used by the station, a representative therefrom should superintend all feeding and personally do all weighings. This work can be satisfactorily performed by graduating students and affords them valuable training. Provision for the compensation of men so employed should be included in the next year's Animal Husbandry section's portion of the fund.

To satisfactorily complete the work now in progress and to continue along the lines mentioned in the foregoing, the sum allotted for the year past is inadequate and should at least be doubled for the year coming.

F. R. MARSHALL,
Animal Husbandry and Dairying

SUB-STATIONS.

BEEVILLE SUB-STATION.

BEEVILLE, TEXAS, May 19, 1904.

Prof. John A. Craig, Dean and Director, College Station, Texas:

DEAR SIR: At your request, I herewith present report of experiment work completed and under way since September 1, 1903:

Cauliflower—One-eighth acre; irrigated.

Cauliflower—One-eighth acre; not irrigated.

Cauliflower—Bleaching test.

Cauliflower—Variety test; seven varieties.

Cabbage—Variety test; thirteen varieties.

Cabbage—One-fourth acre; irrigated.

Cabbage—One-fourth acre; not irrigated.

Cabbage—Co-operative fertilizer test; 15-40 acre plots.

Beans, Fall 1903—Variety test; eight varieties.

English Peas, 1903—Variety test; twenty-three varieties.

Lettuce—Variety test; twenty-one varieties.

Beets—Variety test; twelve varieties.

Spinach—Variety test; six varieties.

Radishes—Variety test; twenty-eight varieties.

Turnips—Variety test; sixteen varieties.

Carrots—Variety test; ten varieties.

Radishes—Variety test; one-tenth acre yield test.

Beets—One-tenth acre yield test.

Lettuce—One-tenth acre yield test.

Carrots—One-tenth acre yield test.

Onions—Variety test; nineteen varieties.

Onions—One-twentieth acre; irrigated.

Onions—One-twentieth acre; not irrigated.

Data on all of the above experiments will be completed in a few days, with the exception of the variety test of onions, all of which are not matured as yet, and the co-operative fertilizer test of cabbage.

This co-operative test with cabbage was commenced in the fall of 1902, and is being carried on in different sections of South Texas by practical growers, for the purpose of determining the most profitable fertilizers for cabbage in their respective communities.

The following experiments are now under way:

Strawberries—Variety test; nineteen varieties.

English Peas—Variety test; twelve varieties.

Beans—Variety test; nine varieties.

Sweet Corn—Variety test; five varieties.

Tomatoes—Fertilizer test; eighteen plots.

Tomatoes—Variety test; six varieties of two rows each; one row transplanted direct from hotbed to field, one row transplanted to cold frame and then to field.

Egg Plant—Variety test; six varieties; same as tomatoes.

Pepper—Variety test; six varieties; same as tomatoes.

Cucumbers—Variety test; six varieties.

Cantaloupes—Variety test; three varieties.

Castor Beans—One-half acre.

In the new orchard which was commenced last year we have:

Peaches—Nineteen varieties; two of each.

Plums—Eighteen varieties; two of each.

Grapes—Twenty-seven varieties; two of each.

Loquats, kumquats, pomelos, figs, dewberries and blackberries—A few varieties of each.

Our vacant vegetable land is now being planted to cow peas (as fast as circumstances will allow) for the purpose of plowing under in the fall.

In field crops we have:

Cotton—Variety test; twenty-one varieties.

Corn—Fifteen acres for feed purposes.

Kaffir Corn—Ten acres for feed purposes.

Sorghum—Ten acres for feed purposes.

Realizing the great importance which vegetable growing has now assumed in South Texas, and the increased drain upon the soil by intensive cropping, I would suggest that a good part of next season's work be taken up in experimenting with the different commercial fertilizers on some of the most important vegetables, best methods of growing, packing and shipping. Also that some of the experiments of the past season, which were not entirely satisfactory, be repeated.

However, this work could only be carried on in a small way unless more funds are available for labor, as it is simply impossible to carry on many of these experiments in a really practical way unless we have more help. While most of our experiments this past season have been fairly successful, I attribute nearly all of our failures to lack of labor and water for irrigation purposes. I would also suggest that a small peach and plum orchard (of varieties which have proven of value) be set out this winter for commercial purposes.

In the line of equipment, as you are aware, it is absolutely necessary that we have a new gasoline engine and deep well, if possible. The engine on hand has been in use since 1895, and is completely worn out. While we have two shallow wells, their combined capacity is entirely inadequate to supply the needs of our vegetable experiments in a dry season, such as we have experienced this past winter, consequently I would suggest that a new well be bored to second vein, a distance of 240 or 250 feet, which will insure us of an unlimited supply of water. It is necessary if this work be completed that it is commenced at an early date.

A new rabbit proof and stock fence is very much needed on part of the station grounds, as the old rabbit proof wire netting fence is almost

rusted out, neither is it high enough to prevent rabbits jumping over. This fence would not only answer the required purpose, but would add materially to the looks of the place.

Very truly yours,
J. K. ROBERTSON,
Superintendent.

TROUPE SUB-STATION.

TROUPE, TEXAS, May 21, 1904.

John A. Craig, Director of Experiment Station, College Station, Texas:

DEAR SIR: The following report of the work done at the Troupe State Experiment Station during the present year is herewith submitted:

AGRICULTURE.

The following experiments in the Agricultural section are practically duplications of last year's work.

Experiment No. 1.—Variety Test of Cotton.

Fifteen one-tenth acre plats are used in this experiment. Thirteen varieties are being tested with two extra plats of Bohemian cotton at intervals for controls.

Experiment No. 2.—Fertilizer Test on Cotton.

Thirty-one plats of one-tenth acre each are planted to King's Improved cotton, of which twenty-six have been treated with fertilizers of different kinds and combinations. Five unfertilized plats have been reserved as controls or checks.

Experiment No. 3.—Variety Test of Corn.

Six varieties of northern grown corn in one-half acre plats are being tested. Adjacent to these plats a two-acre plat has been planted to one variety of home grown seed.

Experiment No. 4.—Fertilizer Test on Field Corn.

Five one-half acre plats are planted to home grown seed of which four are treated with fertilizers of different forms. One plat is used as a control.

Experiment No. 5.—Forage Crop Test.

The following forage crops have been sown this spring: Two acres

of German millet, one-half acre Pearl millet (*Pennisetum Zeavides*), one acre milo maize, one acre red Kaffir corn, two acres Amber sorghum, one-half acre dwarf Essex rape and two acres alfalfa. For comparison one-half acre of the alfalfa was sown in drills twenty inches apart and one and one-half acres sown broadcast. Nearly two acres of amber sorghum have been sown for summer feed.

Experiment No. 6.—Variety Test of Peanuts.

Four varieties covering one acre have been planted. One acre of Spanish peanuts for winter feed is also growing.

Experiment No. 7.—Fertilizer Test on Peanuts.

Six one-sixth acre plats are included, of which five plats are treated with fertilizers in different combinations and one plat is reserved as a control.

HORTICULTURE.

Experiment No. 1.—Variety Test of Irish Potatoes.

Twelve varieties are being grown, as follows: Four varieties northern grown seed, four varieties home grown seed and four varieties in duplicate plats of home and northern grown seed for comparison.

Experiment No. 2.—Comparative Test of Northern and Home Grown Potato Seed.

Home grown, spring crop seed; home grown, fall crop seed, and northern grown seed have been planted in three small plats.

Experiment No. 3.—Fertilizers on Irish Potatoes.

Home grown Triumph are planted in forty-one one-fortieth acre plats, twenty-one of which are treated with fertilizers in different forms and combinations. Twenty unfertilized plats are reserved as controls.

Experiment No. 4.—Varieties of Tomatoes.

Twenty-two varieties are being treated for earliness, quality and productiveness.

Experiment No. 5.—Spraying to Prevent Blossom End Rot on Tomatoes.

Five one-twentieth acre plats are being sprayed at different intervals and with various mixtures. One plat untreated is reserved as control.

Experiment No. 6.—Fertilizer Test on Tomatoes.

Fifteen one-fortieth acre plats are treated with fertilizers in various forms and combinations. Two plats unfertilized are reserved as controls.

Experiment No. 7.—Control of Boll Worm on Tomatoes.

Three one-tenth acre plats are being treated.

Experiment No. 8.—Variety Test of Cabbage.

Six varieties are being tested, covering about one-half acre.

Experiment No. 9.—Variety Test of English Peas.

Twenty varieties in small plats are being tested.

Experiment No. 10.—Varieties of Radishes.

Seventeen varieties have been tested. Complete notes and photographs have been made.

Experiment No. 11.—Variety Test of Peppers.

Eight varieties in small plats are being tested.

Experiment No. 12.—Variety Test of Egg Plants.

Five varieties in small plats are being tested.

Experiment No. 13.—Variety Test of Beans.

Twenty-two varieties, covering the common types, are being tested.

Experiment No. 14.—Variety Test of Cantaloupes.

As a result of last year's experience only three varieties of cantaloupes, in one-fourth acre plats each, are being tested.

Experiment No. 15.—Fertilizer Test on Cantaloupes.

Rocky Ford seed has been planted in twenty-two one twenty-fifth acre plats, of which nineteen are treated with fertilizers in various strengths; mostly with reference to different percentages of plant food. Three unfertilized plats are reserved as controls.

Experiment No. 16.—Thinning Cantaloupes.

Small plats are employed in comparing the effect of thinning on the quality and yield of melons.

Experiment No. 17.—Fertilizer Test on Watermelons.

Thirteen plats, one-fortieth acre each, are employed, of which eleven are treated with various combinations of fertilizers. Two plats are used as controls.

Experiment No. 18.—Variety Test of Cucumbers.

Fifteen varieties are being tested in small plats.

Experiment No. 19.—Variety Test of Squashes.

Five varieties are being tested in small plats.

Experiment No. 20.—Variety Test of Sweet Corn.

Nine varieties are being tested, covering one-half acre.

Experiment No. 21.—Variety Test of Sweet Potatoes.

The co-operative work on sweet potatoes with the United States Department of Agriculture will be continued this season.

Experiment No. 22.—Miscellaneous Variety Test.

Included in these tests are four varieties of okra, two of carrots, two of beets, two of turnips, four of lettuce, two of mustard, four of onions, two of leeks, spinach, kahlrabi, cauliflower and Brussels sprouts, covering about one-fourth acre.

Experiment No. 23.—Asparagus and Rhubarb.

Asparagus planted last year has made a good growth, and will undoubtedly succeed. Rhubarb all died during the hot weather last summer.

FRUIT PLANTATIONS.

Strawberries.

Forty-two varieties have been planted, covering one-third acre. With the exception of a few varieties that were dropped on account of being mixed, this plat is practically the same as last year's planting.

Dewberries and Blackberries.

Twenty-four varieties of dewberries and six varieties of blackberries have been planted, covering one-fourth acre.

ORCHARDS.

Apple Orchard.

Seven varieties have been added to this orchard and two missing trees have been replaced.

Peach Orchard.

As reported by Mr. Green, a large number of varieties died after planting. This season twelve varieties have been replaced and sixteen varieties added.

Plum Orchard.

Nineteen trees have been planted this season, five new varieties planted and ten vacancies filled.

Pear Orchard.

Nineteen varieties have been planted, covering three-fourths of an acre. In connection with this variety test an investigation of the effect of pear scions on various roots is being made.

Pecan Orchard.

Twenty varieties have been planted, covering two acres.

Persimmon Orchard.

Ten varieties of Japanese persimmons have been planted alternately in rows with pecans.

Cherries.

Six varieties have been planted.

Vineyard.

From the time of planting until last winter the trellis for the vineyard consisted of but the posts and a single wire. This season cross pieces for the posts and ten thousand feet of wire have been used in completing the three wire or "Munson canopy trellis" system. All varieties have put out an excellent growth this season and good results from the test are practically assured. Fully 90 per cent of the varieties have set fruit.

The present season has been most unfavorable for nearly all crops. With the exception of German millet and alfalfa, all forage crops were planted twice. Cotton was planted twice with planter, and to insure perfect stand, was replanted with hoes. Cantaloupes, watermelons and squashes were planted the second time. Corn has come up to a good stand and looks very promising.

The outlook at present for good results from this season's experiments is very good.

Tomatoes here are conceded to be the earliest in the vicinity of Troupe. Irish potatoes will be harvested within a few days and good results are assured. Cantaloupes have made a good growth, and show the effects of the applications of fertilizers. The vineyard is well fruited and will undoubtedly give good results this season. The vineyard of 120 varieties is probably of more interest to visitors than any other experiment at the station. For the convenience of the public and to simplify the note taking, a system of labeling for orchards and vineyards is being installed as rapidly as possible.

Twelve acres (estimated) of timber land, although "deadened" and

on which an attempt at cultivation had been made, but left in the form of a wilderness of dead trees, brush and weeds, has during the past winter and spring been cleared and put under cultivation.

As rapidly as is practicable stumps are being removed, the fields leveled and placed in condition for experimental purposes.

Five acres (estimated) of land which at present is unfit for experimental purposes, has been sown to cow peas with a view to bettering its physical condition.

The landscape feature of the grounds have received considerable attention. Walks and drives have been laid out. One hundred trees and flowering shrubs of various sorts have been placed in groups around the buildings. Three hundred feet of *Ligustrum Amurense* and one hundred feet of *Citrus Trifoliata* form a hedge which separates the building grounds from the fields.

Suggested lines of work for year beginning September 1, 1904:

Notwithstanding the negative results obtained from the fall and winter garden crop last fall, I would suggest that it be tested again next season.

Fall planting of alfalfa should be given a thorough trial. Two seasons' experiments here would indicate that spring planting is unsatisfactory for this crop, at least, under the conditions here.

Subsoiling experiments should be carried on in connection with alfalfa growing.

Forage crops for sheep and hogs, providing the stock can be furnished the station, is an important subject that should be investigated.

A complete collection of pears, pecans and cherries should be added to the orchards now started.

With few exceptions the experiments with fertilizers on the various crops should be repeated next season; the exceptions, of course, to be governed by the results obtained this season.

Several varieties of gooseberries and currants should be included in the small fruit plantation.

A comparative test of fall and spring planted strawberries should be made. A thorough fertilizer test on strawberries should also be made.

In connection with the experiments at this station it seems very desirable that a complete record of rainfall and temperature be kept.

I therefore suggest that as soon as practicable apparatus be purchased for these records.

The Experiment Station is daily receiving bulletins, nursery and seed catalogues, farm publications and other periodicals, all of which should be filed away for reference. Experiments are being photographed from time to time and the negatives should be carefully preserved as records. At present there are no cases here for that purpose. I would suggest, therefore, that cases and shelves suitable for filing purposes be placed in the office.

At a small expense a dark room can be arranged in the second story of the residence building; chemicals and developing apparatus can be purchased, thus making a photographic outfit that will be entirely complete, and constantly at hand when occasion requires. The value of these photographs as records of experiments can not be overestimated.

A number of repairs and a few additions should be made to the stock of farm tools. The repairs will be attended to before the end of the present year. One new disc harrow, one floating spring tooth harrow and one single harness should be added to the equipment.

Unfortunately the shed room at this station is inadequate and as a consequence some valuable tools have been exposed to the weather from the time they were purchased two years ago. Not only is this practice extremely detrimental to the tools, but it never fails to leave an unfavorable impression on the mind of the visiting public. A shed attached to the north side of the barn would be inconspicuous, convenient, and would furnish ample protection for the tools. I am,

Very respectfully,

W. S. HOTCHKISS.

ENGINEERING.

REPORT OF DEPARTMENT OF CIVIL ENGINEERING.

COLLEGE STATION, TEXAS, May 11, 1904.

Dr. David F. Houston, President Agricultural and Mechanical College:

DEAR SIR: Complying with your request I have the honor to submit the following report for the Civil Engineering Department for the session now closing:

All civil engineering classes, with the exception of the Junior, have been larger than for previous years, and because of the transition from the course of study, resulting from the old entrance requirements, to the new course the instruction work has been very much concentrated in the spring term. The addition of Professor Spence to the teaching force of the department, which was made last summer, has enabled us to carry on the work efficiently and with comparatively small sections. This is of decided advantage to the work, since it enables us to give the students more individual attention. The work of the classes has been fairly good, though we have been unable to cover quite as much ground with the Seniors as in former years. I understand that instructors in other departments met with the same difficulty with this class. It was, apparently, through no lack of desire to do good work on the part of the class, but rather to the fact that a number of men it contained had been allowed to go on with too many deficiencies, and they have acted as a drag on the entire class. A number of these have dropped out on finding themselves hopelessly behind, but I am by no means certain that all who still remain will be able to satisfy the requirements for graduation. The scholastic work of the lower classes has been very much better.

The following tabular statement will show the number of students in each course and the number of hours per week of recitations and practice required of them:

| SUBJECT | Term | No. of St'd'ts | No. of Secs. | Hours per Week | | REMARKS |
|--------------------------------------|-------------|----------------|--------------|----------------|----------|------------------------------|
| | | | | Rec. | Practice | |
| SENIOR C. E's. | | | | | | |
| R. R. Engineering..... | Fall..... | 29 | 2 | 5 | 5 | Rec. 1 Mo., Prac. Whole term |
| Hydraulics..... | Fall..... | 30 | 2 | 2 | | |
| Mechanics of Materials..... | Fall..... | 30 | 2 | 5 | | Rec. 2 Mos. |
| Hydraulics..... | Winter..... | 28 | 2 | 4 | | |
| Roofs and Bridges..... | Winter..... | 28 | 2 | 5 | | |
| Mechanics of Materials..... | Spring..... | 24 | 2 | 3 | | |
| Roofs and Bridges..... | Spring..... | 24 | 2 | 3 | | |
| Bridge Designing..... | Spring..... | 24 | 2 | | 7 1-2 | |
| JUNIOR C. E's. | | | | | | |
| Surveying and R. R. Engineering..... | Fall..... | 18 | 1 | 3 | 5 | |
| Railroad Engineering..... | Winter..... | 16 | 1 | 3 | 2 1-2 | |
| Roads and Pavements..... | Spring..... | 16 | 1 | 3 | | |
| Mechanics of Materials..... | Spring..... | 16 | 1 | 3 | | |
| R. R. Engineering Practice..... | Spring..... | 16 | 1 | | 2 1-2 | |
| SOPHOMORE C. E's. | | | | | | |
| Plane Surveying..... | Spring..... | 43 | 2 | 3 | 5 | Practice for Half the Term |
| SENIOR M. E's. | | | | | | |
| Plane Surveying..... | Winter..... | 9 | 1 | 3 | | A Few Af'n'n's Prac. |
| SENIOR-JUNIOR M. E's. | | | | | | |
| Mechanics of Materials..... | Winter..... | 20 | 1 | 3 | | |
| Mechanics of Materials..... | Spring..... | 20 | 1 | 3 | | |
| SOPHOMORE M. E's. | | | | | | |
| Plane Surveying..... | Spring..... | 23 | 1 | 3 | 5 | Practice for Half the Term |

The following table shows the number of individuals, after deducting for names counted twice or more, who received instruction in the department during the year:

| | FALL | WINTER | SPRING |
|--------------------------------------|------|--------|--------|
| Civil Engineering Students..... | 47 | 44 | 83 |
| Mechanical Engineering Students..... | | 20 | 43 |
| Total..... | 47 | 64 | 126 |

Following is the number of schedule hours per week taught by each of the two instructors in this department for each of the terms:

| | FALL | | | WINTER | | | SPRING | | |
|-------------------|------|-------|-------|--------|-------|--------|--------|--------|--------|
| | Rec. | Prac. | Total | Rec. | Prac. | Total | Rec. | Prac. | Total |
| J. C. Nagle..... | 10 | 5 | 15 | 15 | | 15 | 15 | 12 1-2 | 27 1-2 |
| D. W. Spence..... | 7 | 10 | 17 | 12 | 2 1-2 | 14 1-2 | 15 | 12 1-2 | 27 1-2 |

The foregoing by no means represents the actual hours put in by us in instruction work, for, in addition to the time given to students outside of schedule hours in connection with their regular work, there has been a great deal of work in directing the preparation of theses by the large number of students in the graduating class. Unfortunately we have been so busy with recitations during the hours when the students could best take advantage of such direction that these theses have not received as much attention as they deserved. It is my belief that the work next session will be more logically distributed and that more attention can be given to this matter. In addition to the work above mentioned the instructors have had to care for a large number of field instruments and make some repairs to them, besides looking after the care of other property belonging to the department; also in serving upon Faculty committees. Professor Spence has been especially heavily loaded in this respect, being a member of seven standing committees, some of them requiring a large amount of work, besides committees appointed from time to time for special purposes. I have not had as much committee work to do in Faculty matters as Professor Spence has had, but I have served on a number of committees appointed by the Board of Directors in matters relating to construction on the campus. One of these—that which required the giving of grades, etc., for the sewer extension—required quite a large amount of time and attention, but, fortunately, the work came at a time when my schedule was not as heavy as it usually is.

In the future we expect to accomplish much more under the present entrance requirements than has been possible in the past. The improvements will lie in more thorough instruction in the subjects heretofore taught and in the addition of other necessary subjects bearing on the fundamental principles of civil engineering. The improvements in the course are shown in the catalogue.

The appropriations made for this department consisted of \$3000 for equipment and \$400 for running expenses. With the former only about \$220 worth of instruments have been purchased so far, because the appropriation was so small, considering the many things needed, that I wished to make the most of it and deferred placing orders until it is possible to look into the matter thoroughly so as to secure the best terms possible. For the testing laboratory apparatus I hope to be able to make terms with some of the manufacturers personally should I be able to visit the St. Louis Exposition this summer, and as I understand the appropriation holds for two years (and the apparatus most wanted will not be badly needed before next session) I thought it wiser to defer the expenditure. The \$220 above referred to was for an additional transit. By reason of a personal interview with the agent of one manufacturer I was able, by purchasing a transit at list price, to secure the donation of an engineer's Y level, which was as badly needed as the transit. This resulted in a saving to the College of at least \$80 over and above the best discounts obtainable. This is the second time I have been able to obtain such a concession from a manufacturer, and in both cases it was due to personal interviews with agents.

The running expense appropriation was utilized for current expenses, such as the purchase of materials and supplies required for the conduct

of class instruction, and for office sundries. Also in the purchase of such items as the following:

| | |
|---|----------|
| Minor engineering instruments, such as chains, tapes, marking arrows, plumb bobs, level rod, grindstone for sharpening hatchets, hatchets, adjusting pins, etc., about..... | \$60.00 |
| Nine drawing stands and tables..... | 61.55 |
| Nine drawing stools to go with above..... | 9.00 |
| Drafting instruments for bridge design practice..... | 75.00 |
| Cement floor in testing laboratory..... | 31.00 |
| Total | \$236.55 |
| Running expenses above referred to already expended, about.... | 83.00 |
| Unexpended, save for a few small bills outstanding, about..... | 80.45 |
| Total | \$400.00 |

The amount remaining still unexpended will be used to good advantage. It would have been used long ago but that I deemed it best to defer some needed purchases as long as possible lest some unexpected demand should arise.

Among the needs of the department may be mentioned an additional section room and furnishings. At present Professor Spence is using the room adjoining the President's office, and it is to be hoped that this arrangement can be continued. I have the room immediately below, adjoining the Commandant's office. The first named room is fitted up with borrowed desks and chairs, while my room is inadequately supplied. We need, in order to fit up these two rooms properly, about fifty additional seats with arm rests. These will cost about \$125. In both rooms the blackboards are simply the hard finished walls painted. We need about 160 lineal feet of first class blackboard, preferably carbo-slate, which will cost, freight and erection included, about \$100. In addition to this the usual \$500 for current expenses will be needed. The balance remaining of the \$3000 for equipment will be expended to the very best advantage.

Some weeks ago a graduate from the Civil Engineering course, now engaged in irrigation engineering, Mr. T. L. Smith, of Eagle Lake, wrote me that if we could fit up a suitable plant for testing centrifugal pumps he felt sure that he could secure a donation of one, and possibly two such pumps. Mr. Smith called attention to the necessity for having tests of this character made, as most of the pumps on the market give an efficiency of only 50 per cent or less, and stated that such tests by an institution like the Agricultural and Mechanical College would be of great financial importance to the rice irrigator. After considering the question carefully, and after consulting with Professor Whitlock with a view to obtaining his co-operation, I was forced to tell Mr. Smith that it would be impossible now to accept the pumps unless the proposed donors would be willing to wait until such time as we were able to make the tests before receiving the results of the tests. I further asked that if he could so arrange it the offer be left open until I could

learn whether or not sufficient funds could be had to fit up the necessary tanks, flumes, measuring weirs, piping, and motor to drive the pumps. A motor of sufficient power to drive even one of the smaller sizes of the pumps used in rice irrigation would cost about \$800, and the other details, foundations, etc., would cost about \$400, making about \$1200 which would be required. This would be money well expended, if it is available, and I trust it may be found possible to make this appropriation.

The last Legislature made an appropriation of \$25,000 for a building to accommodate the departments of Civil Engineering and Drawing, but the Governor deemed it necessary, on account of a probable deficiency in the general revenue, to strike it out. This would have been sufficient only for the nucleus of a suitable building, but it would have made a beginning, and the building could have been so designed that at some future time the remaining space needed could be added. An adequate building, properly equipped, would cost something like \$80,000, and I sincerely trust that such an appropriation, or something approximating this amount, will be made. The other day I received an official circular from the University, giving the number of degrees conferred for each year since its beginning in each course. Twenty-eight were set down as having received the C. E. degree, and I know that perhaps six or eight had received the degree of B. S. for work in the engineering course. I will not be positive about this last number, but am positive that the first to receive the B. S. degree for engineering work was in 1888. There was but one that year. In 1889 two received this degree—Professor Spence and myself—for engineering work. In 1892 the first C. E. degree was conferred and the twenty-eight above referred to date from that time. In 1888 the Department of Civil Engineering in the Agricultural and Mechanical College (organized in 1887) turned out a few graduates. From 1888 to 1903 the total number of graduates from this course in this College number, by a hurried count, 152—or more than four times the number graduated from the University during the same time. Nevertheless, the University has a building which accommodates the Civil Engineering Department, while the College has none. I submit these figures for what they are worth, but would strongly urge that a course which has graduated this number of students (more than two-fifths the total number graduated from all the courses offered at the College), be given better facilities, if it be possible to secure them, in order to prosecute the work to the best advantage. Even with the meagre facilities heretofore available our work has resulted in much good, and our graduates have made an excellent showing in engineering lines, not only in Texas, but in other States and countries as well.

To recapitulate, I would state that our most pressing needs for the coming session are:

1. Two good section rooms.
2. Blackboards and seats, to cost about..... \$225
3. For current expenses 500
4. For suitable provision to make tests of pumps.....1200

For the next report to the Legislature I trust that an appropriation

of about \$80,000 may be asked for for a suitable building to accommodate Civil Engineering and Drawing.

I desire to express my high appreciation of the thorough and effective work done in this department by Associate Professor D. W. Spence, whose energy, courtesy, ability and efficient work for the institution deserve substantial recognition in the way of increased compensation, which I hope may be accorded him.

I desire further to express my appreciation of the uniform courtesy shown me and for the encouragement and interest which you have manifested in my work throughout the year.

Trusting that the foregoing may be sufficiently full and explicit, I remain

Yours very respectfully,

J. C. NAGLE,

Professor of Civil Engineering.

Our inventory, completed since the above was written, shows a valuation of \$4570.85, an increase of \$269.35 over the inventory value for the session of 1902-03.

J. C. N.

REPORT OF DEPARTMENT OF PHYSICS AND ELECTRICAL ENGINEERING.

COLLEGE STATION, TEXAS, May 16, 1904.

President David F. Houston, Agricultural and Mechanical College of Texas:

SIR: I have the honor to hand you herewith my annual report for the Department of Physics and Electrical Engineering.

The present year is the first year for this department, it being an outgrowth from the Physics department. This being the case the work was necessarily largely physical. Numbers of students, however, were enrolled in the present Freshman class who are taking the Electrical Engineering course. The exact number can not be ascertained as the Freshman work is identical with the Freshman work of the other engineering courses. A number of Sophomores have decided to take the Electrical Engineering work, so our first graduating class in Electrical Engineering will be the class of 1906.

During the past year there have been 135 students enrolled by the department. Of these fifty-seven took both class and laboratory work, making a total enrollment of 192. This has required an average of twenty-four hours per week in the class room. The work has been much lighter this year than it will be next year, for, on account of the change of course last year, there was no class work in Sophomore Physics this year. There were seventy-eight students in this class, and if they had taken Physics it would have been necessary to divide them into sections, thereby greatly increasing the class room hours. The present Freshman Engineering class is larger than the last, and they will come in for

Physics next year. It will also be necessary to teach the Junior classes in Electrical Engineering next year, therefore it will be essential that there be an assistant in the department next year. The employment of this assistant will probably make it possible to decrease the size of the laboratory sections. One instructor should not have more than about twenty-five students in any one Physics laboratory section, but during the winter term it was necessary to have much larger sections in order to make a schedule possible.

This is the first year that Physical laboratory work has been required of the students. This work is very important to all Engineering students and essential to those who are studying Electrical Engineering. This laboratory work makes it necessary that the students make use of all the apparatus of the department. While great care is taken to allow only those students who have learned to handle apparatus carefully to use the better pieces, still the constant use of apparatus by the students means either that considerable repairs must be made or that the apparatus will deteriorate seriously. If we have to send the apparatus away to have the necessary repairs made, the repairs will cost more than they should, and the delays of transportation will deprive us of the use of the apparatus for considerable periods. If, on the other hand, a mechanic is regularly employed by the department money will be saved. This mechanic could, aside from caring for the apparatus we have, make cheaper than we could buy them many simple pieces that are needed in duplicate and triplicate. He would also be available to construct special apparatus for investigation work. I recommend, therefore, that a mechanic be employed for the department.

The practical instruction in Electrical Engineering will be greatly facilitated by the machinery and appliances in and connected to the power house for the campus, if certain changes could be made in the general lines and equipment to bring them up to modern engineering practice. In asking for these changes I do not want to be understood to criticise the present condition of the equipment, but to ask that it be put in such condition that it will form a part of a whole electrical plant which will create an atmosphere around the students, helpful rather than hurtful to their engineering ideals. The students have a right to think that engineering work should be correctly done in a technical college, and that if the teaching and the practice do not agree something is wrong. Take, for example, the relation of the wiring of buildings and grounds to fire risks. While buildings belonging to the State are not insured and therefore do not have to be inspected by any insurance inspector, still from an educational standpoint, as well as for safety, these buildings should be so wired and protected that they could pass a rigid inspection. As a matter of fact there are not half a dozen buildings on the grounds that would now pass such an inspection. I recommend that money be appropriated for materials and labor to put these circuits in proper shape. Most of the work could very wisely be done by students who could in this way help themselves financially, and at the same time get practical experience under proper supervision. The College, on the other hand, would be getting high grade work at a comparatively low wage rate. The money for this work need not all be appropriated in one year and is not included in the estimates for the de-

partment given below. If from five to six hundred dollars, divided about equally between labor and materials, could be available next year, a good start would be made and conditions would be greatly improved.

By the time we have students in each of the four classes, i. e., by September, 1905, we should have additional equipment of not less than \$6000, besides about \$1000 left of the \$5000 appropriated last year for equipment. The purchase of most of the apparatus for the use of the Senior class can, however, be put off until September, 1905, and in that case the department can get along for the coming year with \$1000 for maintenance and support in addition to the \$1000 on hand for equipment. I estimate as needed by the department as follows:

| | |
|---|--------|
| Equipment for 1904-1905 (amount on hand)..... | \$1000 |
| Maintenance and support for 1904-1905..... | 1000 |
| Equipment for 1905-1906..... | 6000 |
| Maintenance and support for 1905-1906..... | 1000 |
| Equipment for 1906-1907..... | 2000 |
| Maintenance and support for 1906-1907..... | 1000 |
| <hr/> | |
| Total equipment September, 1905, to September, 1907..... | \$8000 |
| Total maintenance and support September, 1905, to September, 1907 | \$2000 |

I also desire to call your attention to the fact that there is need of suitable and permanent quarters. Aside from the fact that more room is required than that available at present, the room should be suitable for laboratory work and the operation of machinery. Then, too, so much of an electrical plant becomes a permanent fixture that the moving of it would involve considerable loss. If it is not possible to secure funds at the present time to complete a building large enough and suitable for this work it would seem wise to construct at present only one wing of such a building and add the rest as soon as funds may be available.

I am pleased to report that Dr. Fountain of Bryan has donated to the department a fine eight-plate static machine worth over \$300.

Respectfully submitted,

N. H. BROWN,
Professor of Physics and Electrical Engineering.

REPORT OF DEPARTMENT OF MECHANICAL ENGINEERING.

COLLEGE STATION, TEXAS, May 14, 1904.

To the Honorable Board of Directors, Through President D. F. Houston:

SIRS: This year, as last, the department started out on the work without the presence of an assistant and was carried that way practically through the fall term.

In addition to this drawback the young men in charge of the shops seemed to lose a great part of their interest in keeping up the quality of the work required from the students; and as nothing will injure a course more than a lack of interest on the part of the instructors, this failing necessarily had its effect on the work of the department. Fortunately for all concerned these instructors were called to other positions before the fall term closed and their places filled by the present incumbents. Mr. V. H. Foy, in charge of the blacksmithing and iron work, is a graduate of this department and has since his graduation spent his time in practical work in the machine shops of one of our large railroad systems. He is thus well equipped for his position and has taken hold of the work with great energy.

The position of instructor in woodwork was filled by Mr. W. H. Whitehead, a former student of the Manual Training School of St. Louis. The advent of these two young men seemed to lend a new life to the work and the later advances along the lines of practical work seem to have fully neutralized the poor start made.

In filling the position made vacant by the resignation of Assistant Professor Kerr, we were fortunate in obtaining the services of Mr. W. G. Drummond, who has the degree of Mechanical Engineer conferred by the Ohio State University. Before entering the university he served his time as an apprentice and became a practical machinist, and after graduating had the valuable experience of superintending large power plants where he was required to give his personal attention to the running, setting up and care of machinery of all kinds, as well as handling the men who were working under him. With this varied experience he brings with him a fund of practical information for the use of the students and department which is proving extremely valuable.

The whole work of the department has been carried along on practically the same lines as those of last year and the classes seem to show fully as good progress.

I attach hereto a table showing the number of students taught in the department this year, as well as the number of hours each instructor has given to the actual teaching work during the session.

The appropriation made by the Board of Directors for equipment has been expended approximately as follows: In fitting up the carpenter shop with new benches, etc., and a few necessary repairs, \$335; fitting out the new forge shop complete, \$1900; small tools for all shops, \$100.

Owing to the fact that the total sum requested was not appropriated, it was found impossible to add to the equipment of the machine shop and at the same time to make the forge shop what it should be. So, rather than do two things poorly, it was thought best to make the blacksmith shop complete in all its details and then expend the remainder of the money in the manner which would give the best results to the department.

By doing this we now have a blacksmith shop which is up to date in all respects (except the power, which should be electricity), and one which is second to none in the country. This leaves the machine shop in the same condition it was before, and it still remains open to the same criticisms noted in my last annual report, which went to prove that

we are getting far behind the times in respect to some of the machine tools.

Again, in moving the blacksmith shop into the new quarters it was necessary to tear out all the apparatus used in the Engineering laboratory, and I would strongly urge that in again fitting up for this work, which is the most valuable part of the course to the students, embodying as it does all the principles gained in his three years' work, it should be done in a manner which will make it compare favorably with the best.

It has been found necessary to have a laborer in the department to act as janitor and general helper around the shops, and for this reason I have added \$200 to the request for running expenses. While this sum will not quite cover the added expense there are a number of small savings due to his services which, added together, will make out the amount.

The buildings need considerable repairing, and about \$300 could be spent to advantage in that manner.

A storeroom or bin for holding the blacksmith coal, with a capacity of one freight carload, would effect a saving of about \$2.50 per ton, and would soon pay for itself. It would have to be strongly built in order to stand the pressure and could be placed just outside the walls of the blacksmith shop for convenience. It could be built for about \$200.

The work of the department for the past two years shows an increase in the efficiency of the theoretical branches, and possibly a slight advance in the value of the practical shopwork, while the addition of the laboratory course, which has been made possible by the advancement in the general work of the College, opens a field which can not be overestimated. In fact this latter branch of the work makes it possible to carry on true engineering work with the more advanced classes. With this addition to the course it becomes possible to make tests of boilers, engines, pumps, motors, etc., in a thoroughly practical manner, besides carrying on the usual valuable laboratory work. In fact, for the past two years the Senior class has been making such tests before graduating.

For the next two years it will be the policy of the department to improve along the lines already laid out, and with a legislative appropriation of \$8000 in addition to those above mentioned it will be possible to put the shops and laboratory in good shape.

We should by all means have a foundry in our equipment and in case this is looked upon favorably an additional legislative appropriation of \$7500 should be made.

If it is thought desirable to run the shop with electricity as mentioned above, it will be necessary to expend at least \$1000 on this outfit. If this is not done it will be necessary to extend the present line of shafting far enough to reach the blacksmith shop at an expense of \$300. This will be necessary because the power now used is borrowed from the steam plant and they will probably have use for it as soon as the winter weather comes again.

Below is given a summary of funds needed according to the above report:

Session of 1904 and 1905.

| | |
|--|--------|
| Running expenses..... | \$1200 |
| Moving laboratory..... | 500 |
| Repair of buildings..... | 300 |
| Electric power for shops (or \$300 for shaft)..... | 1000 |
| Store room for blacksmith coal..... | 200 |
| Total | \$3200 |

Legislative Appropriations.

| | |
|--------------------------------------|----------|
| For shops and laboratory..... | \$8000 |
| Foundry, complete with building..... | 7500 |
| Total | \$15,500 |

Class Room Hours for Each Instructor in Department of Mechanical Engineering, Session 1904-05.

| CLASS | INSTRUCTOR | HOURS | | | No. in Class |
|------------------------|----------------|-------|--------|--------|--------------|
| | | Fall | Winter | Spring | |
| Senior | Whitlock | 11 | 12 | 17 | 9 |
| | Drummond..... | | | 5 | |
| Junior | Whitlock | 6 | | | 12 |
| | Foy | 5 | 2 1-2 | 2 1-2 | |
| | Whitehead..... | 5 | 2 1-2 | | |
| Sophomore | Drummond..... | 3 | 3 | 3 | 71 |
| | Foy | 10 | 10 | | |
| | Whitehead..... | 10 | 10 | | |
| Freshman | Foy | | 15 | 15 | 120 |
| | Whitehead..... | 15 | 15 | 15 | |
| Agricultural Sophomore | Foy | 2 1-2 | | | 26 |

In the above table the hours given are those actually spent per week with the classes and do not cover any time spent in keeping up the equipment or preparing for the actual work. And the hours shown for Mr. Drummond do not show many spent in working with the Senior class in designing and thesis work.

The hours given in the different terms are given as taught by those in charge at the present time and make no allowance for the time spent here by Messrs. Bavington and McNutt.

Respectfully submitted,

R. H. WHITLOCK,
Professor Mechanical Engineering.

GENERAL SUBJECTS.

REPORT OF DEPARTMENT OF CHEMISTRY.

COLLEGE STATION, TEXAS, May 19, 1904.

*Dr. D. F. Houston, President Agricultural and Mechanical College,
College Station, Texas:*

DEAR SIR: In compliance with your request, I hand you herewith my report for the Department of Chemistry. The number of hours taught by each instructor and the number of students in each course, is shown in "Exhibit A;" while the most important additions made to the equipment of the department and approximate cost is shown in "Exhibit B."

As you know, our energies for the last year, and the bulk of our appropriations, have been directed toward equipment of our new laboratory building. Since the contract price for the building included neither table nor desk fixtures, water nor gas supply pipes, sinks nor hoods, the cost and judicious purchase of all these has been a heavy tax upon the time and funds of the department. Since these fixtures had to be placed during the session, we have been constantly embarrassed for a want of space and efficient equipment for our classes. This embarrassment was augmented by virtue of the fact that we had for the past year a great deal more laboratory work, not only as to the number of hours, but also as to the number of students, than we have had in the past.

Some students, as you know, were not prepared for the work in consequence of the radical rearrangement last year of the Agricultural course. And in this connection I may say that I regret to note that for another year, in the above courses, Physics is placed after Chemistry, placing us in the position, I believe, of being the only college in the country with this arrangement.

Every student must have some knowledge of physics before beginning chemistry, or else physics must be taught him in the class room with his chemistry. Another unfortunate arrangement for the department occurs in the C. E. course, where Chemistry is carried forward to the winter term instead of commencing as before with the fall term. This will create a disarrangement of classes both in the section room and laboratory, presenting in the latter case the condition of classes following each other in the same laboratory with different work, necessitating more time from instructors, or more instructors to do the same work.

But in spite of the hindrances referred to above during the present session, the instruction as a whole has been very satisfactory, in many cases excellent. Many of the students have come in the laboratory at extra times for work. Our facilities for teaching have been greatly improved, and the department is reaching a basis from which it may steadily advance in scientific achievement and useful instruction. But we are not equipped, indeed I may say that our laboratory is not yet

furnished, and we need much more material in the way of apparatus. The heaviest expense has been met and the material is of the very best, so that which has been done has been well done, but our work is not completed. We must have more hoods, especially, and there must be additional cases for our museum. With increased classes, as to size and number, the demand for material has greatly increased. Especially is this true of laboratory work. During the past session we have been cramped in this particular, and will stand in even greater need for relief another year. A very urgent need of the department is a supply of electricity during the day. With this we could replace the gasoline engine in the basement which is used to run a fan for ventilating the various hoods—an arrangement which has not proven satisfactory—and at the same time make various other and convenient uses of it in the several laboratories, while of course any instruction in electro-chemistry is an impossibility without it. Then we should have a supply of steam for distillations and heating. These two additions would not only facilitate our work, serve as a means of instruction and illustration to the student, but make possible a large saving of gas, which is now a considerable item of expense. The best arranged laboratories at this time not only have the above conveniences, which are coming to be looked upon as necessities, but are also furnished with compressed air and, by means of pipes, supplied with carbonic acid gas and sulphureted hydrogen gas. But we shall be satisfied for the present if we can get electricity and steam from the power house.

This brings me to the subject of

LABORATORY TIME.

I can not put too much stress upon the topic of time for laboratory work, if efficient instruction is to be expected, and the department held responsible for anything like thorough instruction in Chemistry. Up to the time of acquiring our new laboratory building we had practically no space for laboratory instruction in the true sense of the term, and the wonder is that so much was accomplished in such cramped quarters. Now that we have more space, an adequate allotment of time is very much needed—in fact, a necessity. The course of study has been “reviewed” but not materially improved as a whole, and in some instances, as cited above, positively injured in some respects. In addition to the changes above noted no time has been allowed for laboratory practice in industrial chemistry. And not sufficient time for laboratory work in connection with general and organic chemistry. The latter is coming to be looked upon more and more as the proper basis for agricultural chemistry, but it is impossible to teach it in a manner approaching efficiency without a great deal of laboratory work. Whether this increased time is to occur in the regular schedule of College work, or in a separate “School of Chemistry,” or whether the department is to struggle along crippled as it now is, from the above conditions, it is of course for you and the Faculty, when considering the whole College and all departments, to decide.

LABORATORY FEES.

I deem it of importance to invite your attention to the subject of laboratory fees on the part of the students. It has been the policy of past presidents and boards to lessen as much as possible the expense to the student while attending the College. With this in view no fees, even for "breakage of apparatus," has been collected. On the other hand, practically all colleges and universities elsewhere charge for "material used" and for breakage. This expense varies from \$5 to \$25 a term, depending upon the amount of work done and the care exercised by the student in performing his work. Of course, the more common reagents and the more expensive apparatus are not "charged," unless the latter is broken. While it is important in a way that the means of education should be made as cheap as possible, I doubt the propriety of continuing the above system, for the opposite course would itself be educative, in a measure. Aside from the saving to the department which would result in materially aiding our running expenses, it serves to make the student more painstaking in his laboratory methods and to better impress him with the kind and cost of material needed for laboratory, in case he should ever make use of such material in after life.

STATE WORK.

The fertilizer work as shown by our receipts has largely increased during the past year. It was not expected that this would be the case, because the chief use of fertilizers in the past has been upon truck crops, which were largely disappointing last year in their returns. But a desire to "get ahead of the boll weevil" by having cotton to mature early, has induced many farmers to try the use of fertilizers. It is hoped that the results will not be disappointing, and that the use of fertilizers, at least upon the thinner soils of the State, will continue and grow into a common practice, not only for cotton and truck crops, but for corn and all grain crops, as such a practice is believed to constitute an element of good agriculture. Our better laboratory facilities and equipment have enabled us to handle this larger volume of work with even less labor than in the past. A good illustration of the economy furnished by such facilities.

Insecticide work almost ceased last year, since it was believed that the application of insecticides was of no value in combatting the boll weevil. But a new impetus has been given to the trade by the claim that Paris green, when applied in the form of a dust, sufficiently early and often, will go far toward checking the work of the weevil. Consequently, I gave a press notice of the requirements of the law, and several samples have just been sent in for examination. It is very important that insecticide poisons should be submitted to chemical examination, because there have been in the past several instances of adulteration. In this connection I might say that I do not think that for the present at least the funds arising from State work should be anticipated in excess of an average amount, because the use of fertilizers is not yet upon a stable basis, and the shortage of expectations would seriously embarrass the department. Then it should be remembered that the department must

run through the summer, or from September to September, and as matters now stand we are one summer behind. In other words, we are really running on a fifteen months basis instead of on a twelve months basis, so that the appropriation in June should include funds available for this summer.

Prof. Harrington writes me that he contemplates further work upon cane syrup, with a view of extracting a part of the sugar therefrom in a cheap and simple manner that can be applied by the farmer in order that he may supply his own sugar for home use and still improve the grade of the syrup, in that it will be less likely to crystallize and yet not have its flavor impaired.

RECOMMENDATIONS.

First. That \$1500 be allowed for running expenses for College work.

Second. That \$2000 be allowed for further additions to the department, mainly in the way of equipment and supplies.

Third. In order to take the proper care of the laboratories and apparatus a suitable storekeeper should be employed. This is one of the urgent needs of the department. Such an employe would save money for the department, besides his service would permit the instructors to devote more time to instruction work proper.

Fourth. That a laboratory fee of from \$2.50 to \$5 be charged each student who works in the laboratory according to the time spent at work. This sum is to be for "material consumed;" and a further fee of equal amount be charged for the "use of chemicals and apparatus." This latter fee to be somewhat in the nature of a trust; chemicals and apparatus unconsumed, and returned in good order, not to be charged. At the end of the term any money remaining over from this fund will be placed to the credit of the student or returned.

It is proper to say that Prof. Harrington has been on leave of absence since December and that Prof. Martin has had control of the teaching work of the College, while Dr. Fraps has looked after the station work since that time.

Respectfully submitted,

P. S. TILSON,
Associate Professor.

EXHIBIT A.

Below are given the subjects, the number of hours of instruction, also the number of students that each instructor has taught during the year 1903-04.

Fall Term.

| SUBJECT | HOW GIVEN | H'RS PER WEEK | COURSE AND CLASS | No. of St'd'ts | INSTR'CTR |
|------------------------|------------|---------------|------------------------|----------------|----------------------|
| Agricultural Chemistry | Rec. | 3 | Agricultural Senior | 6 | Harrington and Fraps |
| Inorganic Chemistry | Rec. | 4 | Engineer Junior | 31 | Martin |
| Industrial Chemistry | Lec. Rec. | 4 | Engineer Senior | 9 | Martin |
| Analytical Chemistry | Lab. | 5 | Agricultural Senior | 5 & 1 P. G. | Martin |
| Inorganic Chemistry | Rec. *Lab. | 4 2.5 | Agricultural Sophomore | 30 | Hargis |
| Inorganic Chemistry | Rec. | 3 | Agricultural Junior | 30 | Hargis |
| *Qualitative Chemistry | Lab. | 2.5 | Engineer Senior | 9 | Hargis |

*Given during a part of the term.

Winter Term.

| SUBJECT | HOW GIVEN | H'RS PER WEEK | COURSE AND CLASS | No. of St'd'ts | INSTR'CTR |
|---------------------|-----------|---------------|------------------------|----------------|-----------|
| Geology | Rec | 3 | Agricultural Senior | 6 | Fraps |
| Inorganic Chemistry | Rec. Lab. | 3 2.5 | Engineer Junior | 30 | Martin |
| Organic Chemistry | Lec. Rec. | 1 | M. E. Junior | 13 | Martin |
| Mineralogy | Rec. Lab. | 5 | C. E. Senior | 28 | Martin |
| Assaying | *Lab. | *2.5 | M. E. Senior | 9 | Martin |
| Inorganic Chemistry | Rec. Lab. | 3 5 | Agricultural Sophomore | 23 | Hargis |
| Inorganic Chemistry | Rec. Lab. | 3 2.5 | Agricultural Junior | 23 | Hargis |

*Given hours instead of 2.5.

Spring Term.

| | | | | | |
|-----------------------|--------------|-------|-------------------------|----|--------|
| Geology | Rec. | 3 | Agricultural Senior | 6 | Fraps |
| Metallurgy | Rec. Memoirs | 4 2 | M. E. Junior | 14 | Martin |
| Qualitative Chemistry | Lab. | 2.5 | M. E. Junior | 29 | Martin |
| Assaying | Lab. | 2.5 | M. E. Senior | 9 | Martin |
| Analytical Chemistry | Lab. | ..... | Graduate Students | 2 | Martin |
| Inorganic Chemistry | Rec. Lab. | 3 5 | Agricultural Sophomores | 19 | Hargis |
| Organic Chemistry | Rec. | 3 | Agricultural Junior | 21 | Hargis |
| Qualitative Chemistry | Lab. | 2.5 | Agricultural Junior | 21 | Hargis |

It is seen that over 125 students have taken work in the Department of Chemistry this year. All of the Seniors, Juniors and the Agricultural Sophomores have taken one or more subjects in the department. Four graduates of the College have taken special work in the department this year.

The students studying chemistry were addressed December 18, 1903,

by Mr. R. M. Chaplin of Swift & Co., Fort Worth, on the utilization of the by-products of a packery. The students of the Industrial Chemistry class were taken on a three days' (December 12, 13 and 14) visit to Beaumont, Port Arthur, Houston and Sugar Land, at which places some of the leading industries of the State were studied. Written reports were required of those who went.

The four years' course of this College is made up of twelve terms. The students of the Agricultural course take work in the Chemical department during eight of these terms. The Mechanical Engineers are connected with the department during five of the twelve terms, and the Civil Engineers during four of the twelve terms.

Practically the entire time of two instructors (Martin and Hargis) and three hours per week of a third instructor (Fraps) have been devoted to instruction work. During the busy season in the State laboratory Mr. Hargis assisted with the analytical work.

EXHIBIT B.

An appropriation of \$2775 was made to equip the department. This amount was insufficient to get the laboratories ready for the students. Two student laboratories were furnished with oak desks and soapstone sinks. The lecture room was furnished with a large oak desk and six dozen chairs. New furnaces were built in the assay laboratory. The desks in the State and station laboratory were covered with soapstone. This laboratory was also furnished with large soapstone sinks. The desks in the private laboratory were covered with slate. A case each for books and bulletins was purchased for the department library. Several hundred dollars were spent for student supplies, chemicals, glassware, etc. A large portion of this glassware has been unavoidably destroyed by students during the year.

The assay laboratory is without desks, and none of the laboratories have enough shelves. The laboratories should be more fully equipped with reference books, chemicals and apparatus.

| | |
|---|--------|
| Students' desks and lecture room table..... | \$1107 |
| Bookcase and bulletin case..... | 190 |
| Soapstone slabs, sinks and slate slabs..... | 336 |
| Assay furnace..... | 320 |
| Gas and water pipes..... | 560 |
| Gas machine..... | 221 |
| Chairs | 162 |
| Hoods | 44 |

CHEMICAL ENGINEERING.

To one acquainted with the industries of Texas and with the courses of study offered by the various institutions of learning, there seems to be a failure on the part of the latter to prepare men for many of our most important industries. We have the so-called professional courses for those who wish to follow law, medicine, etc. We have the various engineering courses for those who wish to prepare themselves for railway

building and similar enterprises, for the textile industry and for electrical and mechanical engineers. Courses are also offered in every branch of agriculture. We have courses in chemistry and physics which are taken because they are required, as are English, mathematics, etc., or to prepare oneself to teach the subject in public schools or colleges.

A glance at a partial list of Texas industries impresses one with the necessity of a course that would equip men to become managers and work superintendents after having had experience. The following are some of the industries whose successful operation depends largely upon chemical principles: Cotton seed oil mills and refineries, mineral oil refineries, sugar mills and refineries, ceramic industries including brick, fire brick, cement, lime, glass, pottery, etc.; manufacture of fertilizers, paper (from wood pulp, bagasse and rice straw) and soap; leather tanneries, creosote, asphalt and salt works; iron and quicksilver works, and packeries.

One readily sees that to become the most successful manager of such plants a person should possess a knowledge not only of the principles of chemistry and their applications, but also of mechanics. Such a person would be a chemical engineer.

The first year's work of the student who wished to become a chemical engineer would be essentially that of other engineering courses. If practicable a preparatory course in physics should be given in the Freshman year so that chemistry could begin with the Sophomore year. The major subject throughout the three years would be chemistry, while mechanical engineering, physics and applied electricity would be the minors. The non-professional subjects would be identical with those of the usual engineering courses.

After the course became established it would probably be advisable to offer options in the Senior year to enable students to pursue that branch which they expected to follow after leaving College.

REPORT OF DEPARTMENT OF DRAWING.

COLLEGE STATION, TEXAS, July 14, 1904.

To the Honorable Board of Directors, Agricultural and Mechanical College of Texas:

GENTLEMEN: I respectfully submit the following report from the Department of Drawing for the session of 1903-04.

With the approval of President Houston I left the College in October after the year's work in the department had been laid out and after the classes had been started. The instruction was given by Mr. Gideon and Mr. Mitchell, as outlined in the catalogue, in a highly satisfactory manner.

During my absence from College I attended the Massachusetts Institute of Technology and completed the course in Architecture, Engineering option, given by that institution, having in view especially the course

in Building Construction, which I expect to give the Senior Engineering students next session, and the probable addition of a course in Architectural Engineering in the near future.

I thank you sincerely for the opportunity for advanced study which I have just enjoyed, and I commend Mr. Gideon and Mr. Mitchell to you for their efficient work during my absence.

Of the appropriations, amounting to \$985, made for the department last session, \$635.38 were used in the purchase of new drawing tables and other furniture, and \$344.76 were used in the purchase of new drawing instruments and to defray running expenses.

The accompanying inventory shows the value of the property in the department to be \$2815.51.

For next session I respectfully ask an appropriation of about \$300 for additional equipment and for running expenses.

Very truly,

F. E. GIESECKE,
Professor of Drawing.

REPORT OF DEPARTMENT OF ENGLISH.

COLLEGE STATION, TEXAS, May 12, 1904.

President David F. Houston, Agricultural and Mechanical College:

SIR: I have the honor to submit the following report for the Department of English for the session of 1903-1904.

In the work of the department I have had the very efficient help and the cordial co-operation of Messrs. Lomax and Embry. The accompanying exhibit will give some idea as to the amount of work done by each instructor.

WORK OF INSTRUCTION IN ENGLISH DEPARTMENT.

Fall Term.

| Subject | Class | Hours Per Week | | No. of Students | Instructor |
|--------------------------|--------------------|----------------|----------|-----------------|----------------|
| | | In Class | Confer.* | | |
| Comp. & Rhetoric..... | Fr. Eng. 2..... | 5 | ..... | 29 | C. P. Fountain |
| Argument..... | Soph. C. E. 1..... | 3 | ..... | 30 | " |
| English Literature..... | Sr. M. E..... | 3 | ..... | 20 | " |
| English Grammar..... | ..... | 5 | ..... | 139 | " |
| Comp. & Rhetoric..... | Fr. Eng. 1..... | 5 | ..... | 29 | J. A. Lomax |
| "..... | Fr. Agr. | 5 | ..... | 23 | " |
| Argument..... | Soph. M. E..... | 3 | ..... | 31 | " |
| English Literature..... | Sr. C. E..... | 3 | ..... | 25 | " |
| Comp. & Rhetoric..... | Fr. Eng. 3..... | 5 | ..... | 29 | G. C. Embry |
| "..... | Fr. Eng. 4..... | 5 | ..... | 29 | " |
| "..... | Soph. Agr. | 3 | ..... | 29 | " |
| Argument..... | Soph. C. E. 2..... | 3 | ..... | 31 | " |
| Totals..... | | 48 | | 444 | |
| Names repeated..... | | | | 136 | |
| Net No. of students..... | | | | 308 | |

*The conference hours are not put down for the first term on account of some irregularity in meetings, due to the fact that the English office was unfinished.

Winter Term.

| Subject | Class | Hours Per Week | | No. of Students | Instructor |
|--------------------------------------|--------------------|----------------|---------|-----------------|----------------|
| | | In Class | Confer. | | |
| Comp. & Rhetoric..... | Fr. Eng. 2..... | 3 | 4 | 29 | C. P. Fountain |
| English Literature..... | Soph. C. E. 1..... | 3 | 4 | 26 | " |
| Comp. & Rhetoric..... | Soph. Agr. | 3 | 3 | 22 | " |
| " | Fr. Agr. | 4 | 2 | 22 | J. A. Lomax |
| " | Fr. Eng. 1..... | 3 | 3 | 31 | " |
| English Literature..... | Soph. M. E. | 3 | 3 | 27 | " |
| Comp. & Rhetoric..... | Fr. Eng. 3..... | 4 | 3 | 27 | G. C. Embry |
| " | Fr. Eng. 4..... | 4 | 3 | 28 | " |
| English Literature..... | Soph. C. E. 2..... | 3 | 2 | 25 | " |
| Totals | | 30 | 27 | 237 | |
| Names repeated..... | | | | 5 | |
| Net No. of students | | | | 232 | |
| Total No. hours of instruction | | | | 57 | |

Spring Term.

| Subject | Class | Hours Per Week | | No. of Students | Instructor |
|--------------------------------------|--------------------|----------------|---------|-----------------|----------------|
| | | In Class | Confer. | | |
| Comp. & Rhetoric..... | Fr. Eng. 2..... | 3 | 5 | 28 | C. P. Fountain |
| " | Soph. Agr. | 3 | 3 | 18 | " |
| English Literature..... | Soph. C. E. 1..... | 3 | 4 | 26 | " |
| Advanced Comp..... | Sr. | 3 | 3 | 14 | " |
| Comp. & Rhetoric..... | Fr. Agr. | 4 | 2 | 20 | J. A. Lomax |
| " | Fr. Eng. 1..... | 3 | 4 | 31 | " |
| English Literature..... | Soph. M. E. | 3 | 3 | 33 | " |
| Advanced Comp..... | Sr. | 3 | 3 | 20 | " |
| Comp. & Rhetoric..... | Fr. Eng. 3..... | 3 | 4 | 26 | G. C. Embry |
| " | Fr. Eng. 4..... | 3 | 4 | 27 | " |
| English Literature..... | Soph. C. E. 2..... | 3 | 4 | 21 | " |
| Totals | | 28 | 39 | 264 | |
| Names repeated..... | | | | 1 | |
| Net No. of students | | | | 263 | |
| Total No. hours of instruction | | | | 67 | |

The net number of students who have received instruction in the English department is 320.

It will be seen that during the fall term I had sixteen regular class periods and gave instruction to 218 students; during the winter term I taught twenty hours each week and had seventy-seven students; during the spring term I taught twenty-four hours each week and had eighty-six students, an average of 20 2-3 weekly periods and 127 students per term throughout the year. Mr. Lomax had an average of nineteen weekly periods and ninety-seven students throughout the year; Mr. Embry has had an average of 18 1-3 periods and eighty-eight students. Each instructor has also had the weekly task of reading and correcting from one to two hundred papers. No record of the actual time thus spent has been kept; but it would be safe to say that at times such work has occupied almost as many hours as were devoted to class room work.

The aim in all the work has been to help students to acquire such a knowledge of the mother tongue as will enable them to speak it and write it readily and accurately.

The Freshman class completed Hill's Principles of Rhetoric and a brief work on punctuation; they also read carefully and prepared written reports on the following English classics: George Eliot's *Silas Marner*, Irving's *Alhambra*, Shakespeare's *Merchant of Venice*, Goldsmith's *Vicar of Wakefield*, Cooper's *Last of the Mohicans*, Scott's *Ivanhoe*, Scott's *Lady of the Lake*, Macaulay's *Essay on Addison*, Addison and Steele's *Sir Roger de Coverley Papers*, Johnson's *Rasselas*, Swift's *Gulliver's Travels*, De Quincy's *Revolt of the Tartars*, Hawthorne's *Scarlet Letter*, Stevenson's *Treasure Island*. Much of this reading was done in the classroom, and students were helped by the comments of the instructors to understand and appreciate what they read. In addition to regular weekly compositions, frequent written exercises were prepared in the classroom.

The Agricultural section of the Sophomore class covered the same ground as the Freshman class, but not so thoroughly, as it had only three recitation periods a week.

The Engineering sections of the Sophomore class completed Baker's Principles of Argumentation in the fall term; they also read carefully and prepared reports on Burke's *Speech on Conciliation with America*, Webster's *Reply to Hayne*, and Macaulay's *Essay on Clive*. The principal part of their written work consisted of frequent exercises in brief drawing and the preparation of a forensic. The winter and spring terms were devoted to a study of the outline history of English literature and to preparing reports on required readings from classic authors.

The Engineering sections of the Senior class spent three hours a week during the fall term in the careful study of two of Shakespeare's plays, in connection with which written work and parallel reading were required. The time assigned them for English during the spring term, one hour a week, was used in advanced composition work and practice in letter writing.

A very important feature of the work of the department has been the private conferences held by the instructors with individual students. We have endeavored to meet each student of the Freshman and Sophomore classes as often as once a week and go over with him a piece of his written work, point out his errors and make suggestions especially suited to his needs. This kind of work has consumed fully as much of the time of the instructors as their classroom exercises. The time given to a single student in one of these conferences has varied from ten to thirty minutes.

The instructors have taken special pains to encourage students to confer with them in regard to any written work that they have had to do. The office hours of the department have been from 8 o'clock in the morning to about 5 in the afternoon, and the instructors, when not engaged in their regular work, have cheerfully embraced every opportunity of giving advice as to reading, going over a piece of written work or helping in any proper way any student who sought information connected with the subject of English. The results of the methods pursued are gratifying. Most of the students have taken a lively interest in their work, and many of them have made excellent progress. Some students whose training in elementary English was exceedingly deficient when they entered College, have, by the aid of the instruction

received in private conferences, learned to write very creditable compositions.

The foregoing report shows that each instructor has had an average of nearly one hundred students under his charge during the past year. It is manifestly impossible, under the system of personal conferences, for one man to hold weekly conferences with this number of students, in addition to the preliminary reading of papers and his regular classroom work, and at the same time do entire justice to each individual. Next year the work of the present teaching force will be increased by the recent Faculty regulation requiring English in the Junior year, and also by the English teaching necessary for the numbers expected under the new provisions for the admission of special students. To meet these additional demands with measurable satisfaction I strongly urge the appointment of another instructor in English.

The class in literature has been seriously cramped this session because of a lack of books in the general library. Through the generosity of the library committee a number of the classics and reference books most needed have been purchased. The amount of money available has, however, been entirely inadequate to our needs. I hope the time is not far distant when the Board can supply the English department with a stated annual appropriation for books for the library—books not intended to develop technical scholars, but such as will afford a proper stimulus for good literature among the students. Most of their culture here and in after life must necessarily come through reading, and the College should afford them access to the best available English masterpieces.

For the accommodation of both students and instructors there should be kept in the English office the Century Dictionary, Murray's New English Dictionary and the Dictionary of National Biography.

One of the English recitation rooms is provided with rough straight pine desks, exceedingly uncomfortable, and unsightly in appearance. These should be replaced with comfortable desks or chairs. The room can seat about fifty men. The English office has temporarily borrowed two desks. These will have to be returned, and two of the instructors will thus be without consultation desks. An expenditure of \$20 would supply this need. The attractiveness of the office would also be greatly enhanced by a small appropriation for pictures of prominent authors.

In closing I desire to express my appreciation of your constant and cordial sympathy, and of your helpful suggestions in making effective and valuable the recent changes in the work of this department.

Respectfully submitted,

C. P. FOUNTAIN,
Associate Professor of English.

REPORT OF THE DEPARTMENT OF HISTORY.

May 5, 1904.

President David F. Houston:

DEAR SIR: I have the honor to report that during the last two years, by your arrangement and with the aid of the services of Mr. Potts, the

A. & M.—10.

Junior and Senior classes have had instruction in industrial history and political economy, while the study of general history has been confined to the lower classes.

In the session 1902-03 the Freshman class studied ancient history, and the Sophomore, medieval and modern. The study of ancient history was then added by action of the Faculty and confirmation by the Board to the requirements for admission; and in the session of 1903-04 the Freshman class studied medieval and modern history more thoroughly than previous students of the Sophomore class had done, as we had a better type of applicants. The Engineering students, with four successive text-books, reported for recitation six times a week; the Agricultural, with one book, three times a week, throughout the year. Map drawing, compositions and other methods were used in association with the ordinary daily recitation. During this session, in order that the Sophomore class under the changed curriculum should not be without instruction in medieval and modern history, they reported to this department for six hours a week during one term, and received instruction through the medium of a separate text-book.

For graduate students Mr. Potts has a course in economics, involving the subjects of transportation, industrial legislation and industrial combinations. He purposes to add to this, in the case of competent students, original investigations of special economic problems in this State.

In all the classes much work is required which entails large use of the College library.

The hours each instructor has taught this session have varied with the terms, in consequence of one term having been also devoted to the instruction of the Sophomore class and of the exigencies of the schedule of hours. For the fall term I had fifteen hours a week, Mr. Potts eighteen; for the winter term I had twenty-four, he twenty-five; for the spring term I had eighteen, he sixteen. Of course additional hours had to be given to preparation for classes and examination of written work.

In course 1 we have had (including the Sophomore Engineering students) 191 students under our instruction; in course 2, 19; in the courses in economics 11 Senior Agricultural and 34 Senior Engineering students.

Three sets of charts have been added recently to the equipment of the department, costing \$45.

The greatest immediate need of the department is a better section room for Mr. Potts, with the necessary furniture. Of the cost of this I can form no definite idea.

It is the purpose of the department to impress more and more upon the student the underlying principles of human progress, as well as the main facts needed in such analysis as shall bring them out. But this will require no expenditure of money, unless the Board can afford us the luxury of a department library.

In view of the valuable services Mr. Potts has rendered and is rendering, I would respectfully urge that he be advanced to the rank of associate professor with corresponding increase of salary. It is due to

him that I should say that he knows absolutely nothing of this recommendation.

Respectfully submitted,
 CHARLES WOODWARD HUTSON,
 Professor of History.

DEPARTMENT OF LANGUAGES.

President D. F. Houston:

SIR: The Department of Languages reports as follows for the year ending June, 1904.

NUMBER OF STUDENTS.

Owing to the raising of the standard for entrance examination, and the resulting heavier work in all departments, the number of language students as compared with former years has somewhat decreased. That is, there have been fewer volunteers from departments in which language study is not required. During this last year the total number of language students was 120. Of these 93 selected German, 26 chose French. Besides these some thirty, mainly of the Sophomore class in Agriculture, selected Spanish at the beginning of the year, but owing to pressure of other work were permitted to drop it. Only one, a Freshman, is now studying Spanish.

PROGRESS MADE.

Considering the time allotted for language work, two years with three periods a week for recitation, the department has done well. We labor under the great disadvantage of having to use much of our time in teaching general grammar. The common schools of our State seem to fail to afford that drill in the analytical grammar of the English word and sentence which means so much to the youth undertaking a foreign tongue. We have to build foundations in a department which presupposes a certain proficiency in the mother language. We are, therefore, looking with hopeful anticipation to the result of the preparatory course for which the College now provides. We hope it may include a resumption of the old time processes of oral spelling and oral parsing.

DEPARTMENT NEEDS.

There has been no special appropriation made us. The department owns a valuable Littré's Dictionary of French. We need a good real encyclopedia and etymological dictionary of German. It will cost from \$25 to \$50, and would be too much to ask out of the library appropriation proper.

We need for examination and quiz purposes a good mimeograph, so that each man may after examination carry with him to his room the papers on which he has been tested.

We suggest that the College purchase for the general library a complete set of the D. C. Heath & Co. German, French and Spanish texts. We believe they would be read and prove serviceable in infusing interest in those literatures.

WORK IN THE DEPARTMENT.

The head of the department gives seventeen hours per week to actual classroom work. The assistant has given an average of twenty hours. Prof. Campbell's efficient and conscientious help has been of great service. His methods are accurate, practical and student-like.

Respectfully submitted,

T. C. BITTLE,
Professor of Languages.

DEPARTMENT OF MATHEMATICS.

May 16, 1904.

President D. F. Houston:

SIR: I have the honor to submit the following report for the Department of Mathematics for the current session.

The appointment of Mr. T. P. Junkin to fill the vacancy caused by the resignation of Prof. Banks has proved to be highly satisfactory. His work has been excellent.

The studies for this year have been: Freshman, plane and solid geometry, algebra; Sophomore, advanced algebra, solid geometry, analytics, calculus; Senior, analytics, calculus.

The number of students enrolled in the department has been 321. The distribution of the work and the division of the classes into sections taken from the records for December 1, 1903, was as follows:

| Class. | Sections | Students | Hours | Instructor |
|-----------|----------|----------|-------|------------|
| Senior | 1 | 37 | 5 | Puryear |
| Junior | 1 | 30 | 6 | " |
| Sophomore | 1 C. E. | 26 | 6 | " |
| | | 93 | 17 | |
| Sophomore | M. E. | 27 | 6 | Smith |
| " | Ag. | 23 | 3 | " |
| Freshman | 3 | 29 | 6 | " |
| " | 4 | 28 | 6 | " |
| | | 107 | 21 | |
| Sophomore | 2 C. E. | 22 | 6 | Junkin |
| Freshman | 1 Ag. | 16 | 6 | " |
| " | 1 Eng. | 28 | 6 | " |
| " | 2 Eng. | 29 | 6 | " |
| | | 95 | 24 | |

The attempt was made to cover the subject of analytics in one term and the result was unsatisfactory. Hereafter one and one-half terms will be devoted to that subject.

I desire to ask your attention to the action of the Faculty (page 158 of the minutes) looking to the appointment of an instructor in mathematics for young men over 18 years of age and unable to enter the Freshman class. I recommend that the Board of Directors be asked to leave the appointment of a suitable man to the President and the Professor of Mathematics, at a salary of \$1000.

I renew my request that the section rooms of the department be put in proper condition.

Respectfully submitted,

CHARLES PURYEAR,
Professor of Mathematics.

REPORT OF THE MILITARY DEPARTMENT.

To the President, Agricultural and Mechanical College:

SIR: I have the honor to submit the following report of the Military Department of the Agricultural and Mechanical College for the year ending June 7, 1904.

THEORETICAL INSTRUCTION.

Senior Class.—One hour a week during the fall term. Average attendance, forty. Course included study of and recitations in Napoleon's Campaigns in Italy and lectures and talks upon bases of operations, lines of operations, outposts, marches, cavalry screens, tactics, strategy, modern warfare, modern and ancient weapons of warfare and such other subjects as are set forth in or suggested by a study of these campaigns. In these talks and lectures the aim was not to collect a lot of isolated examples to illustrate a certain subject, but to study the subject in connection with the history of the campaigns, and to use isolated examples on occasion to illustrate more fully the subjects described in the text. In this manner, by following the history of the campaigns, the interest of the student was maintained throughout the term. I also delivered in the winter term a lecture to the Seniors on the Japanese-Russian War.

Junior Class.—Three hours a week during winter term. Average attendance, forty-six. Course included school of the soldier, company and battalion in close and extended order, guard manual and firing regulations. Talks were made to the class on modern tactics as influenced by improvements in modern fire arms, and on ancient and modern weapons of warfare.

PRACTICAL INSTRUCTION.

During the fall term drills were held on Mondays, Wednesdays and Fridays; during the winter term inspections and dress parades were held on Mondays, Wednesdays and Fridays when the days were warm and pleasant, and in the spring term drills have been and are now being

held on Mondays, Wednesdays and Fridays. Thus far, also, three days target practice has been held, and it is quite probable that two or three more days of target practice will be held during this term. In all there will be held about ninety drills this year. The drills comprised school of the soldier, company and battalion in both close and extended order and target practice for the Seniors.

Considering the time devoted to theoretical and practical instruction, very satisfactory results have been reached in each; the battalion of cadets has taken an interest in the drills, and on the whole I have been pleased with the progress made. Considering the fact that the Seniors are all new beginners in target practice, very fair results have thus far been obtained.

The one thing most needed in the military department at present is an increase in the salary of the bandmaster. His pay should be at least \$75 per month for the entire year. At present his pay is less than the pay and allowances of bandmasters of regular army regiments. Consequently, when a bandmaster at the College shows his ability and achieves some success the adjutants of the regular army regiments try to obtain his services. Thus the success of the bandmaster, which should be a benefit to the college, will often result in its hurtfulness by depriving the band of his services, probably at the very moment he is most needed. Moreover, \$900 a year—\$75 per month for twelve months—is not too much to pay for the musical ability and brains required by a good bandmaster.

It would be a great saving to the cadets, be a help towards better recitations and an aid to discipline, if suitable rooms at the College could be provided for a tailor, shoemaker and barber. With suitable rooms provided, it is believed there would be little or no difficulty in obtaining suitable workmen.

A store house is much needed for beds, mattresses, stoves, stove pipe, and such furniture as is used by cadets—chairs, washstands, wardrobes, etc.—in their dormitories.

In connection with the book store now at the college, a supply store where campaign hats, caps, shirts, underwear, shoes, collars, cuffs, ties, shoe blacking and stationery were kept and sold practically at cost, or a very little above cost, would be a great convenience and a great saving to the cadets.

A new sink—water closet—at the rear of Gathright Hall or in that vicinity is very much needed.

An armory, where the cadet rifles, swords, belts, ammunition, target supplies, and such ordnance as is needed at the College can be kept, is very much needed. An armory with a large drill hall, where competitive drills, drills in the manual of arms, and even company drills, could be held in bad weather, is the kind of armory needed. The drill hall, too, could be used as a dance hall, thus doing away with the inconvenience of moving the tables out of the mess hall dining room every time a dance is given by the corps of cadets.

A new hospital, too, is much needed, and enlarged facilities for bathing should be provided. A building with swimming tank, bath rooms, and about 500 lockers—one for each cadet—should be built. Connecting with the building for bathing purposes an out-of-door gymnasium prop-

erly inclosed is needed, and would be of great benefit and much gratification to the cadets.

More section rooms are needed in the main building, the military department has none. It is believed that one of the section rooms of the Civil Engineering Department could be used for that purpose, if that department had a separate building. As it is one of the most important departments at the College, a very large per cent of the students taking that course, it seems to me that a Civil Engineering Department building should be provided for at an early date.

Foster Hall and Ross Hall need calcimining, and a new walk is very much needed from the north end of the main building to Gathright Hall. A new flag staff should be purchased and erected. The one now in use is old and rotten.

At a small cost of about \$15 the target range this year was repaired. Owing to the fact that school during the last year has been held on Saturdays, practice in target shooting has necessarily been limited, it being impossible to find sufficient spare time for much practice.

Two hundred dollars were allowed the Military Department for incidental expenses. A detailed statement of the expenditure of this fund will be found in the Treasurer's office. The amount allowed is sufficient, provided it did not become necessary, as it often does, to purchase new equipments out of this fund. For instance, it was necessary this year to buy swords and belts, amounting to \$60, which so depleted the fund that there was not sufficient left to purchase all other things needed. In addition to this fund I think a fund of about \$100 should be set aside to be used in purchasing music for the band and such new equipments and arms, not furnished by the United States, as it may be necessary to have, with the understanding, of course, that none of this fund be used unless the necessity warrants it, and then only on the approval of the President.

My clerk, Frederick Post, employed at \$40 per month, does the office work, makes out all the department reports and acts as armorer and ordnance store keeper. His work keeps him very busy; he is efficient, reliable, painstaking and most obliging. I earnestly recommend that his salary be increased to \$50 per month. He earns every cent of that amount. Being accustomed to the work, and familiar with every detail thereof, he is a most useful man to the military department, and I feel that this slight raise in his salary would be no more than the just deserts due to his faithful services.

In closing this report I desire to put on record the fact that during many years of service and work, under the orders of many superior officers, I have met no one under whom it has been more pleasant to serve than yourself. Upholding me in all efforts to promote discipline, ever ready to give most respectful consideration to every recommendation of mine; firm, able, frank and most considerate at all times, I find much pleasure in being associated with you for a brief while in my military life.

Very respectfully,

H. H. SARGENT,
Captain Second Cavalry, Commandant.

REPORT OF HEALTH DEPARTMENT.

COLLEGE STATION, TEXAS, May 14, 1904.

President David F. Houston, Agricultural and Mechanical College of Texas:

SIR: I beg leave to submit the following report of the work of the Health Department during the past two years and recommendations of such measures as will increase the efficiency of the department.

SESSION OF 1902-03.

During the session of 1902-03 the following cases were admitted to the Infirmary:

| | |
|---|-----|
| Abrasion of knee and foot..... | 1 |
| Abscess of abdominal wall..... | 1 |
| Abscess of thigh..... | 1 |
| Acute indigestion | 6 |
| Appendicitis | 1 |
| Burn (powder) of face and hands..... | 2 |
| Contusion of side | 1 |
| Cold | 10 |
| Cellulitis of leg | 1 |
| Conjunctivitis | 2 |
| Epilepsy | 2 |
| Epididymitis | 2 |
| Furuncle | 4 |
| Fever, simple continued | 1 |
| Herpes zoster | 2 |
| Hydrothorax | 1 |
| Headache | 2 |
| Intestinal and hepatic torpor..... | 36 |
| Impaction (Caecal) | 1 |
| La Grippe | 17 |
| Malaria | 2 |
| Neuralgia | 2 |
| Overexertion | 1 |
| Pharyngitis | 1 |
| Parotitis, Epidemic | 36 |
| Parotitis, Epidemic (complicated) | 8 |
| Poison oak dermatitis | 2 |
| Rheumatism | 1 |
| Sprained and inflamed foot..... | 1 |
| Sprain of ankle | 5 |
| Sprain of knee | 1 |
| Tonsilitis | 3 |
| Tobacco-heart (palpitation) | 1 |
| Total | 158 |

SESSION OF 1903-04.

During this session there have been admitted to the Infirmary the following cases:

| | |
|---|-----|
| Acute indigestion | 2 |
| Cerebral concussion | 1 |
| Cholera morbus | 1 |
| Cold | 21 |
| Conjunctivitis | 4 |
| Constipation | 1 |
| Contusion of abdomen | 1 |
| Contusion of side | 1 |
| Corneal ulcer | 1 |
| Cystitis ! | 1 |
| Diarrhoea ! | 3 |
| Fracture of nasal bone | 1 |
| Fracture of ribs | 1 |
| Furuncle | 4 |
| Headache | 4 |
| Intestinal and hepatic torpor..... | 82 |
| La Grippe | 67 |
| Lymphadenitis | 2 |
| Malaria | 37 |
| Measles | 27 |
| Nephritis | 1 |
| Neuralgia | 3 |
| Pleurisy | 3 |
| Pneumonia | 1 |
| Rheumatism | 6 |
| Sprain of ankle | 1 |
| Sprain of knee | 1 |
| Tonsilitis | 29 |
| Total | 307 |
| Total admissions to Infirmary for the two sessions..... | 465 |

We have been very fortunate in having but little sickness of a very serious nature. All of the above cases, treated during the past two years, have progressed satisfactorily with the exception of perhaps a half dozen who returned to their homes unimproved. The case of appendicitis demanded operative treatment, after which the patient was soon fully restored to health.

In addition to the cases treated at the Infirmary and the sickness among the residents of the campus, there were about three thousand office consultations during the session of 1902-03, and five thousand during that of 1903-04. During the past session there were about four thousand prescriptions filled in the pharmacy.

The health of the campus has, in general, been good during both years. There was an epidemic of mumps during the spring of 1903, one of measles during the past winter. With these exceptions there have been no epidemic or contagious diseases. While we have had quite a

number of cases of malaria, there does not seem to be any local cause for them, as the great majority of the students suffering from this malady were affected before coming to the College. During the two years there has not been a case of malaria in a permanent resident of the campus which was contracted here.

SEWAGE SYSTEM.

One of the greatest safeguards of the health of the college community is the sewage system. During the past year it has been extended, and nearly every building on the campus is now connected with it. The old closets, which were used by the students, have been replaced with modern apparatus, to the great improvement of sanitary conditions.

NATATORIUM AND GYMNASIUM.

The natatorium is in very bad condition and should be replaced by a more substantial and better furnished building. The bath tubs, with one or two exceptions, are in such condition that they can not be used. Were it not for the shower bath and pool it would not be possible for the students to secure baths. There is no provision for heating the building, so that, during the winter months a bath is a disagreeable necessity and not a pleasure.

There is great need for a properly equipped gymnasium. While the military exercises, shops, and out-door practice give the student a certain amount of healthful exercise, much good would result from systematic gymnasium exercise under the management of the Physical Director, especially to those students who are not inclined to take part in out-door athletic sports.

DORMITORIES.

When not over crowded the rooms in the dormitories are, on the whole, very comfortable. The method of heating (by wood stoves) is far from satisfactory, and it is advisable that some modern method of heating should be instituted as soon as possible. It would require a considerable outlay to make the change, but the greater healthfulness of the plan as well as the saving in fuel render the expenditure advisable.

DRAINAGE.

There is room for great improvement in the matter of drainage on the campus. If it is not possible to improve the roads and put in gutters and drains of some impervious material, a sufficient force should be maintained to keep the ones we now have free from the weeds and grass with which they are almost constantly choked.

NURSING.

We have been fortunate in having the services of a very competent trained nurse. Notwithstanding her marked skill and ability there was

a considerable portion of the past session when it was not possible to do full justice to the patients under our charge. The volume of work was too great for our force to give as careful attention to all the details of scientific nursing as is advisable. Should there be a marked increase in attendance, or should the sickness of the past year prove to be the average amount, I think it will be necessary to employ an additional nurse or orderly.

PHARMACIST.

The amount set aside by the Board of Directors for employing an orderly was used to secure a competent pharmacist. He has been of the greatest assistance in conducting the infirmary. In addition to compounding the medicines used in the infirmary, filling about four thousand prescriptions, and attending to the other duties of his position, he has rendered such assistance in nursing as he was able to give. I do not think the amount set aside by the Board for that purpose sufficient remuneration for the services required or that it will always insure a competent person for the position. I recommend that the salary be increased to \$60 per month.

EQUIPMENT FUND.

The equipment fund of \$900 set aside by the Board for the infirmary was expended as follows for necessary linen, stoves, china and kitchen ware, hot water supply, disinfecting apparatus and in fitting up a laboratory for diagnosis and research.

| | |
|--|---------|
| China and kitchen utensils..... | \$29 77 |
| Disinfecting apparatus..... | 30 00 |
| Laboratory equipment..... | 468 57 |
| Linen, towels, pillows, bath robes, etc..... | 198 43 |
| Stoves and hot water apparatus..... | 65 15 |

Total amount expended.....\$791 92

Balance to credit of fund.....\$108 08

This balance is being held for the purchase of necessary linen, etc., at the beginning of the next session.

INFIRMARY.

The work at the infirmary has been carried on under numerous difficulties and disadvantages. The condition of the building is very bad indeed, and the general plan is not at all suited to the purpose for which it is used. During a rain accompanied by wind, the water blows through the walls and around the windows and doors. The screens at both windows and doors are in such bad condition that it is impossible to exclude insects. Being situated so near the barns, vast numbers of flies and other insects gain access and are a source of great annoyance. I would respectfully call attention to the fact that of the repairs asked for last year we received only the painting of the interior. The doors and windows have not been fixed and we are still without sufficient

shelving in the kitchen, storeroom and pharmacy. The electric wiring of the building is very inferior and the lights of the poorest quality. It has not been possible to keep the wards comfortably warm during the cold weather, notwithstanding the fact that new stoves of good quality were put in during the past session.

We have no room suitable for disinfection of linen, clothing, etc. It has been necessary to use one of the bathrooms for this purpose which has not proven at all satisfactory.

The comfort and well being of the sick students demand that the building be put in the best possible repair before the beginning of the next session. In my opinion the College has no greater nor more imperative need than a substantially constructed and properly equipped infirmary and I recommend that the Legislature be urged to appropriate at least \$25,000 for this purpose.

I recommend the following expenditures during the next two years for the purposes indicated:

| | |
|---|----------|
| Linen, night robes, towels, etc..... | \$ 300 |
| Instruments, operating table, instrument cabinet, etc..... | 170 |
| New screen doors and windows..... | 100 |
| Changing windows and putting in new doors where needed..... | 225 |
| Painting | 60 |
| Shelving | 50 |
| Disinfecting room..... | 150 |
| Rewiring entire building, switches, cut-outs and wall brackets... | 100 |
| Building and equipping new infirmary..... | 25,000 |
| Total | \$26,155 |

Respectfully submitted,

HOWARD M. LANHAM,

Physician and Health Officer, Agricultural and Mechanical College of Texas.

ITEMIZED FINANCIAL STATEMENT.

LIST OF PROFESSORS, ASSISTANTS AND EMPLOYES, AND THE ANNUAL SALARY PAID EACH.

| | |
|---|-----------|
| D. F. Houston, President (part from Prairie View)..... | \$4000 00 |
| R. H. Whitlock, Professor Mechanical Engineering..... | 2250 00 |
| H. H. Harrington, Professor of Chemistry..... | 2500 00 |
| Charles Puryear, Professor of Mathematics..... | 2250 00 |
| M. Francis, Professor of Veterinary Science..... | 2000 00 |
| F. E. Giesecke, Professor of Drawing..... | 2000 00 |
| J. C. Nagle, Professor of Civil Engineering..... | 2250 00 |
| T. C. Bittle, Professor of Languages..... | 1800 00 |
| C. W. Hutson, Professor of History..... | 1800 00 |
| D. W. Spence, Associate Professor of Civil Engineering..... | 1800 00 |
| F. S. Johnston, Professor of Farm Husbandry and Agriculturist | 2250 00 |

| | |
|--|-----------|
| E. D. Sanderson, Professor of Entomology, State Entomologist. | \$1750 00 |
| H. M. Lanham, Physician..... | 2500 00 |
| E. J. Kyle, Associate Professor Plant Husbandry and Hort... | 1500 00 |
| C. P. Fountain, Associate Professor of English..... | 1500 00 |
| O. M. Ball, Professor of Botany and Mycology..... | 2000 00 |
| N. H. Brown, Professor of Physics and Electrical Engineering | 2500 00 |
| H. H. Sargent, Professor Military Science, Commandant.... | 570 00 |
| J. A. Craig, Dean, Prof. Animal Husbandry, Director Stations | 3000 00 |
| R. F. Smith, Associate Professor of Mathematics..... | 1400 00 |
| T. P. Junkin, Associate Professor of Mathematics..... | 1400 00 |
| F. R. Marshall, Asso. Prof. Animal Husbandry and Dairying | 1800 00 |
| W. G. Drummond, Associate Professor Mechanical Engineering | 1400 00 |
| E. C. Green, Instructor in Plant Husbandry, Assistant Hort.. | 1300 00 |
| C. S. Potts, Associate Professor in History and Economics... | 1300 00 |
| G. S. Fraps, Associate Professor in Chemistry, Assistant Chem. | 1400 00 |
| W. C. Martin, Associate Professor Industrial Chemistry..... | 1200 00 |
| S. E. Gideon, Instructor in Drawing..... | 1400 00 |
| A. Mitchell, Instructor in Drawing..... | 800 00 |
| O. D. Hargis, Instructor in Chemistry..... | 900 00 |
| J. A. Lomax, Associate Professor in English..... | 1300 00 |
| A. F. Conradi, Assistant Entomologist..... | 1000 00 |
| C. B. Campbell, Instructor in Languages..... | 1200 00 |
| J. H. Rietz, Instructor in Veterinary Science..... | 1200 00 |
| W. H. Whitehead, Instructor in Wood Work..... | 630 00 |
| V. H. Foy, Instructor in Iron Work..... | 720 00 |
| Louis Scholl, Assistant Entomologist and Apiarist..... | 800 00 |
| J. G. Harrison, Treasurer..... | 1500 00 |
| Secretary | 1200 00 |
| B. Sbisaa, Steward..... | 1800 00 |
| R. L. Bennett, Cotton Expert (balance from U. S. Gov.).... | 500 00 |
| J. E. Platt, Physical Director..... | 900 00 |
| Ira Cain, Librarian..... | 750 00 |
| J. W. Carson, Director of Farmers' Institutes..... | 1500 00 |
| P. S. Tilson, Assistant State Chemist..... | 1400 00 |
| Francis Foley, Entomological Stenographer..... | 600 00 |
| Sergeant Post, Secretary to Commandant..... | 405 00 |
| Sergent Kennedy, Night Watchman (12 months)..... | 480 00 |
| Bugler | 810 00 |
| Permanent laborers, Campus..... | 720 00 |
| Janitors (two additional)..... | 1540 00 |
| Mrs. C. C. Neibert, Nurse..... | 585 00 |
| Pharmacist | 405 00 |
| Chief clerk, station..... | 720 00 |
| Stenographer and mailing clerk, station..... | 720 00 |
| Assistant Meteorologist | 60 00 |
| George Groupe, Superintendent Power Plant..... | 1080 00 |
| J. R. Robertson, Superintendent Farm..... | 1500 00 |
| G. C. Embry, Instructor in English..... | 900 00 |
| J. S. Wier, Director Textile School..... | 2000 00 |
| Instructor in Electrical Engineering..... | 1000 00 |
| Additional Instructor in Mathematics..... | 900 00 |

MAINTENANCE AND SUPPORT ACCOUNT.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|----------------|-------------|---------------------------|--------------------------------|---------|
| Sept. 30, 1902 | 30 | Salary | D. F. Houston..... | \$41 66 |
| | 31 | Salary | A. C. Love..... | 66 66 |
| | 32 | Salary | C. P. Fountain..... | 88 90 |
| | 33 | Salary | J. E. Platt..... | 66 66 |
| | 34 | Salary | E. E. Townes..... | 66 66 |
| | 35 | Salary | C. S. Potts..... | 66 66 |
| | 36 | Salary | A. Mitchell..... | 40 00 |
| | 37 | Salary | F. S. Johnston..... | 133 33 |
| Oct. 7, 1902 | 81 | Stationery | Brazos Pilot..... | 2 50 |
| | 82 | Supplies | A. L. Robbins & Co..... | 24 98 |
| | 83 | Subscriptions | X-Ray Journal..... | 3 00 |
| | 84 | Subscriptions | Electrician Pub. Co..... | 6 00 |
| | 85 | Dairy supplies | Patterson Parchment P. Co..... | 6 00 |
| | 86 | Dairy supplies | H. McK. Wilson..... | 3 05 |
| | 87 | Hardware | J. A. Myers..... | 18 51 |
| | 88 | Oil | W. P. Oil Co..... | 14 84 |
| | 89 | Supplies | A. H. Reid..... | 35 |
| | 90 | Hulls | Bryan C. S. Oil Co..... | 19 27 |
| | 91 | Posts | Carson & Smith..... | 16 00 |
| | 92 | Books | W. R. Jenkins..... | 3 00 |
| | 93 | Hardware | J. A. Myers..... | 5 22 |
| | 94 | Lumber | Garth, Howell & Webb..... | 2 65 |
| | 95 | Leather | J. T. Hanway..... | 9 00 |
| | 96 | Hardware | Cole Bros..... | 1 55 |
| | 97 | Postage | W. C. Boyett..... | 4 25 |
| | 98 | Vaccine | Pasteur Vaccine Co..... | 5 00 |
| | 99 | Seed | Peter Henderson Co..... | 4 26 |
| | 100 | Salt | Howell Bros..... | 1 00 |
| | 101 | Paper | T. Haswell..... | 75 |
| | 102 | Cloth | Webb Bros..... | 3 50 |
| | 103 | Hardware | Cole Bros..... | 30 50 |
| | 104 | Laundry supplies | Alden Spears Sons & Co..... | 110 37 |
| | 105 | Ammonia | National Ammonia Co..... | 82 30 |
| | 106 | Electrical supplies | Stanley Electrical Co..... | 32 00 |
| | 107 | Oil | W. P. Oil Co..... | 71 52 |
| | 108 | Hardware | F. W. Heitmann & Co..... | 69 62 |
| | 109 | M. E. supplies..... | Span & Chamberlain..... | 44 |
| | 110 | M. E. supplies..... | T. Haswell..... | 1 25 |
| | 111 | Reference books | D. A. Thompkins..... | 10 00 |
| | 118 | Advertising | Democrat Reporter..... | 2 50 |
| | 119 | Advertising | Gainesville Register..... | 5 00 |
| | 120 | Advertising | Kaufman Sun..... | 2 76 |
| | 121 | Advertising | Enterprise Pub. Co..... | 5 00 |
| | 122 | Advertising | New Braunfels Herald..... | 2 00 |
| | 123 | Advertising | Express Pub. Co..... | 14 26 |
| | 124 | Advertising | Pittsburg Gazette..... | 3 78 |
| | 125 | Advertising | Clarksville Times..... | 5 00 |
| | 126 | Advertising | Jimplecute..... | 3 85 |
| | 127 | Advertising | Hallettsvine Herald..... | 4 00 |
| | 128 | Advertising | Gatesville Star-Forum..... | 3 78 |
| | 129 | Advertising | The Caller Pub. Co..... | 5 00 |
| | 130 | Advertising | Waco Pub. Co..... | 12 00 |
| | 131 | Advertising | Cameron Herald..... | 5 00 |
| | 132 | Advertising | Texas Stockman and Farmer..... | 15 00 |
| | 133 | Advertising | Beeville Bee..... | 3 80 |
| | 134 | Advertising | Comanche Chief..... | 5 00 |
| | 135 | Advertising | Galveston News..... | 31 32 |
| | 136 | Advertising | Gonzales Inquirer..... | 3 78 |
| | 137 | Advertising | Fort Worth Telegram..... | 24 23 |
| | 138 | Advertising | D. & W. Favorite..... | 4 40 |
| | 139 | Advertising | Herald Pub. Co..... | 3 80 |
| | 140 | Advertising | Sunlight Pub. Co..... | 5 70 |
| | 141 | Advertising | Herald Printing Co..... | 5 00 |
| | 142 | Advertising | Temple Times..... | 5 04 |
| | 143 | Advertising | Waxahachie Enterprise..... | 3 75 |
| | 144 | Advertising | Abilene Reporter..... | 2 60 |
| | 145 | Advertising | New Braunfels Zeitung..... | 3 60 |
| | 146 | Advertising | The Democrat..... | 4 00 |
| | 147 | Advertising | Ennis Weekly Local..... | 3 78 |
| | 148 | Advertising | San Angelo Standard..... | 4 80 |
| | 149 | Advertising | Cuero Star..... | 3 51 |
| | 150 | Advertising | Denton County Record..... | 4 80 |
| | 153 | Plumbing | W. W. Smith..... | 146 30 |
| Oct. 15, 1902 | 172 | Matresses | Lottman Bros. Mfg. Co..... | 326 40 |
| | 173 | Beds | Levy Bros..... | 208 80 |

MAINTENANCE AND SUPPORT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|------------------------|-----------------------------|---------|
| | 174 | Plastering | John Boode..... | 150 00 |
| | 175 | Oil | W. P. Oil Co..... | 7 83 |
| | 176 | Pens | Clarke & Courts..... | 65 |
| | 177 | Stationery | Bryan Eagle..... | 36 30 |
| | 178 | Chairs | W. M. C. Hill, Agent..... | 52 08 |
| | 179 | Labor | T. J. Adams..... | 2 80 |
| | 180 | Books | J. J. Pastoriza Co..... | 4 65 |
| | 181 | Tables | W. M. C. Hill, Agent..... | 50 40 |
| | 182 | Books | T. Haswell..... | 5 50 |
| | 183 | Rubber stamps | J. V. Love..... | 35 |
| | 184 | Horse shoeing | W. B. Grice..... | 1 00 |
| | 185 | Typewriter | Merchant & Manning..... | 60 00 |
| | 186 | Filing cases | Clarke & Courts..... | 3 50 |
| | 187 | Paper | Albany Paper Co..... | 75 00 |
| | 188 | Keys | J. A. Myers..... | 2 40 |
| | 189 | Tools | J. A. Myers..... | 5 55 |
| | 190 | Telegrams | W. U. Telegraph Co..... | 1 91 |
| | 191 | Screws | Westcott Chuck Co..... | 1 06 |
| | 192 | Hardware | F. W. Heitmann & Co..... | 14 85 |
| | 193 | Hardware | J. A. Myers..... | 1 75 |
| | 194 | Hardware | J. T. Slocumb Co..... | 1 50 |
| | 195 | Building room | Garth, Howell & Webb..... | 183 07 |
| | 196 | Labor | T. J. Adams..... | 70 |
| | 197 | Buckets | Cole Bros..... | 1 40 |
| | 198 | Tags | Alden Spears Sons & Co..... | 5 00 |
| | 199 | Lumber | Garth, Howell & Webb..... | 1 75 |
| | 200 | Hardware | J. A. Myers..... | 2 00 |
| Oct. 20, 1902 | 219 | Plastering | John Boode..... | 150 00 |
| | 220 | Painting | J. W. Kistler..... | 100 00 |
| | 221 | Stationery | J. J. Pastoriza Co..... | 1 80 |
| | 222 | Advertising | The Gazette..... | 3 78 |
| | 223 | Ventilators | Merchant & Co..... | 12 00 |
| | 224 | Telegrams | W. U. Telegraph Co..... | 2 90 |
| | 225 | Advertising | The Democrat..... | 5 75 |
| | 226 | Stationery | T. Haswell..... | 8 55 |
| | 227 | Stationery | Bryan Eagle..... | 13 00 |
| | 228 | Oil | W. P. Oil Co..... | 14 42 |
| | 229 | Oil | Wilson & Jenkins..... | 15 |
| | 230 | Books | T. Haswell..... | 1 00 |
| | 231 | Stationery | T. Haswell..... | 50 |
| | 232 | Hardware | J. A. Myers..... | 25 |
| | 233 | Hardware | J. A. Myers..... | 3 60 |
| | 391 | Labor | J. A. Adams..... | 10 50 |
| | 392 | Labor | J. A. Adams..... | 9 65 |
| | 393 | Labor | J. A. Adams..... | 11 40 |
| | 394 | Labor | J. A. Adams..... | 7 00 |
| | 395 | Labor | J. A. Adams..... | 10 50 |
| | 396 | Postage | W. C. Boyett..... | 48 90 |
| | 397 | Ice | John Ingram..... | 45 |
| | 398 | Traveling expenses .. | D. F. Houston..... | 158 80 |
| | 399 | Freight on tables..... | I. & G. N. Ry. Co..... | 12 84 |
| | 400 | Freight | I. & G. N. Ry. Co..... | 19 38 |
| | 401 | Night watchman | W. Finley..... | 40 00 |
| | 402 | Office clerk | Claude Roberts..... | 31 95 |
| | 403 | Freight on mattresses | H. & T. C. Ry. Co..... | 1 00 |
| | 404 | Freight on mattresses | H. & T. C. Ry. Co..... | 8 50 |
| | 405 | Freight on mattresses | H. & T. C. Ry. Co..... | 6 30 |
| | 406 | Freight on mattresses | H. & T. C. Ry. Co..... | 4 46 |
| | 407 | Labor | L. Deason..... | 3 90 |
| | 408 | Express | W. F. Express Co..... | 35 |
| | 409 | Express | W. F. Express Co..... | 1 70 |
| | 410 | Express | W. F. Express Co..... | 30 |
| | 411 | Express | W. F. Express Co..... | 30 |
| | 412 | Express | W. F. Express Co..... | 25 |
| | 413 | Salary | W. W. Smith..... | 10 00 |
| | 414 | Labor | Tom Hudson..... | 5 65 |
| | 415 | Plastering | John Boode..... | 40 50 |
| | 416 | Labor | J. W. McNeely..... | 15 00 |
| | 417 | Labor | J. W. McNeely..... | 65 00 |
| | 418 | Labor | B. B. Hemphill..... | 1 25 |
| | 419 | Horse and boy..... | A. Smoot..... | 1 00 |
| | 420 | Books | M. Francis..... | 5 00 |
| | 421 | Ice | John Ingram..... | 31 61 |
| | 422 | Labor | C. Gray..... | 4 80 |
| | 423 | Wood | J. H. Suber..... | 16 20 |

MAINTENANCE AND SUPPORT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-----------------------------|---------------------------------|---------|
| | 424 | Dairy labor | B. Youngblood..... | 40 60 |
| | 425 | Labor | W. Gonyckzi et al..... | 9 50 |
| | 426 | Labor | W. Gonyckzi et al..... | 9 50 |
| | 427 | Lamps | Montgomery, Ward & Co..... | 3 50 |
| | 428 | Postage | W. C. Boyett..... | 3 12 |
| | 429 | Telegrams | W. U. Telegraph Co..... | 25 |
| | 430 | Labor | Tom Rone et al..... | 2 50 |
| | 431 | Labor | L. Kidd..... | 6 00 |
| | 432 | Freight | H. & T. C. Ry. Co..... | 58 |
| | 433 | Freight | I. & G. N. Ry. Co..... | 1 30 |
| | 434 | Labor | L. Kidd..... | 8 75 |
| | 435 | Labor | F. Ebbrecht..... | 3 00 |
| | 437 | Labor | Geo. Grupe et al..... | 344 35 |
| | 438 | Express | W. F. Express Co..... | 1 15 |
| | 439 | Repairs | John Boode..... | 12 00 |
| | 440 | Freight | H. & T. C. Ry. Co..... | 1 29 |
| | 441 | Labor | A. E. Withers..... | 17 50 |
| | 442 | Labor | A. Thompson..... | 50 00 |
| | 443 | Express | W. F. Express Co..... | 25 |
| | 444 | Express | Pacific Express Co..... | 1 65 |
| | 445 | Labor | A. Pierce..... | 3 00 |
| | 446 | Horse for Veterinary | John Starta..... | 5 00 |
| | 447 | Labor | A. E. Withers..... | 47 45 |
| | 448 | Labor | Tom Hudson et al..... | 3 95 |
| | 449 | Labor | T. J. Adams..... | 3 50 |
| Oct. 28, 1902 | 453 | Labor | E. Nelson..... | 27 00 |
| | 454 | Labor | E. E. Thompson..... | 53 10 |
| Oct. 30, 1902 | 480 | Salary | D. F. Houston..... | 41 66 |
| | 481 | Salary | A. C. Love..... | 100 00 |
| | 482 | Salary | C. P. Fountain..... | 133 33 |
| | 483 | Salary | J. E. Platt..... | 100 00 |
| | 484 | Salary | E. E. Townes..... | 100 00 |
| | 485 | Salary | C. S. Potts..... | 100 00 |
| | 486 | Salary | A. Mitchell..... | 60 00 |
| | 509 | Labor | W. P. Wallace..... | 88 30 |
| | 510 | Labor | John Boode..... | 150 00 |
| Nov. 11, 1902 | 550 | Hardware | Cole Bros..... | 22 70 |
| | 551 | Building material | Garth, Howell & Webb..... | 132 15 |
| | 552 | Building material | Garth, Howell & Webb..... | 46 66 |
| | 553 | Building material | Garth, Howell & Webb..... | 4 78 |
| | 554 | Building material | Garth, Howell & Webb..... | 19 15 |
| | 555 | Building material | Garth, Howell & Webb..... | 68 76 |
| | 556 | Building material | Garth, Howell & Webb..... | 38 27 |
| | 557 | Building material | Garth, Howell & Webb..... | 9 00 |
| | 558 | Stationery | Bryan Eagle..... | 11 25 |
| | 559 | Advertising | Taylor Texan..... | 3 78 |
| | 560 | Books | T. Haswell..... | 1 00 |
| | 561 | Copy book | T. Haswell..... | 1 75 |
| | 562 | Wall paper | Giles Wall Paper Co..... | 30 61 |
| | 563 | Draft book | Clarke & Courts..... | 13 50 |
| | 564 | Electrical material | Waco Electrical Supply Co..... | 48 04 |
| | 565 | Drawing material | F. Weber & Co..... | 3 66 |
| | 566 | Drawing material | S. F. Burr & Co..... | 101 06 |
| | 567 | Books | W. R. Jenkins..... | 10 60 |
| | 568 | Supplies | Pasteur Vaccine Co..... | 3 60 |
| | 569 | Supplies | Wilson & Jenkins..... | 13 31 |
| | 570 | Books | Longmans, Green & Co..... | 5 44 |
| | 571 | Material | Wilson & Jenkins..... | 3 50 |
| | 572 | Machine repairs | Stevenson Rep. and Mch. Co..... | 8 50 |
| | 573 | Agricultural supplies | Howell Bros..... | 2 30 |
| | 574 | Stationery | Von Boeckmann S. & Co..... | 2 50 |
| | 575 | Stationery | T. Haswell..... | 1 25 |
| | 576 | Lumber | Garth, Howell & Webb..... | 19 20 |
| | 577 | Subscriptions | Hill Pub. Co..... | 2 00 |
| | 578 | Subscription | American Blacksmith Co..... | 1 00 |
| | 579 | M. E. supplies..... | Beaumont Iron Works..... | 36 62 |
| | 580 | M. E. supplies..... | F. W. Heitmann & Co..... | 44 65 |
| | 581 | M. E. supplies..... | F. W. Heitmann & Co..... | 5 24 |
| | 582 | Telegrams | W. U. Telegraph Co..... | 40 |
| | 583 | Material | T. Haswell..... | 11 00 |
| | 584 | Stationery | Bryan Eagle..... | 4 00 |
| | 585 | Stationery | T. Haswell..... | 2 25 |
| | 641 | Labor | Geo. Grupe et al..... | 345 00 |
| Nov. 15, 1902 | 689 | Salary | F. S. Johnston..... | 200 00 |
| | 690 | Wages | Wm. Finley..... | 40 00 |

MAINTENANCE AND SUPPORT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|--------------------------|--------------------------------|---------|
| | 691 | Wages | C. Roberts..... | 40 00 |
| | 692 | Labor | A. E. Withers..... | 75 00 |
| | 693 | Plumber | W. W. Smith..... | 10 00 |
| | 694 | Labor | J. A. Adams et al..... | 71 90 |
| | 695 | Freight | H. & T. C. Ry. Co..... | 38 |
| | 696 | Freight | H. & T. C. Ry. Co..... | 2 77 |
| | 697 | Labor | A. Necco..... | 2 00 |
| | 698 | Labor | Necco & Eismann..... | 4 00 |
| | 699 | Labor | J. A. Adams et al..... | 36 75 |
| | 700 | Labor | J. A. Adams et al..... | 8 75 |
| | 701 | Express | Pacific Express Co..... | 40 |
| | 702 | Express | Pacific Express Co..... | 1 00 |
| | 703 | Express | W. F. Express Co..... | 60 |
| | 704 | Postage | W. C. Boyett..... | 5 00 |
| | 705 | Freight | H. & T. C. Ry. Co..... | 5 25 |
| | 706 | Labor | A. Necco..... | 5 00 |
| | 707 | Labor | A. Tomsen et al..... | 52 00 |
| | 708 | Labor | J. H. Parsons..... | 1 50 |
| | 709 | Labor | W. F. Smith..... | 2 00 |
| | 710 | Express | W. F. Express Co..... | 1 85 |
| | 711 | Express | W. F. Express Co..... | 1 40 |
| | 712 | Labor | B. Youngblood..... | 40 00 |
| | 713 | Labor | E. C. Noble..... | 40 00 |
| | 714 | Postage | W. C. Boyett..... | 10 60 |
| | 715 | Postage | W. C. Boyett..... | 76 55 |
| | 716 | Express | W. F. Express Co..... | 3 25 |
| | 717 | Telegrams | W. U. Telegraph Co..... | 1 72 |
| | 728 | Military supplies | M. C. Lilly & Co..... | 27 00 |
| Nov. 27, 1902 | 739 | T. W. ribbons..... | Merchant & Manning..... | 3 50 |
| | 740 | Books | T. Haswell..... | 2 95 |
| | 741 | T. W. paper..... | Capital City Book Co..... | 9 00 |
| | 742 | Advertising | Independent Courier..... | 3 78 |
| | 743 | Subscriptions | MacMillan Co..... | 5 00 |
| | 744 | Plant pots | Athens Pottery Co..... | 4 80 |
| | 745 | Stationery | Bryan Eagle..... | 4 00 |
| | 746 | Supplies | G. H. Pittman..... | 7 77 |
| | 747 | Phys. supplies | A. L. Robins Supply Co..... | 272 00 |
| | 748 | Phys. supplies | Smith & Lewis..... | 5 00 |
| | 749 | Lumber | Garth, Howell & Webb..... | 7 80 |
| | 750 | Trees | Thos. Mehan & Sons..... | 21 60 |
| | 751 | Supplies | Waco Electrical Supply Co..... | 9 41 |
| Nov. 30, 1902 | 752 | Supplies | W. P. Oil Co..... | 14 84 |
| | 810 | Salary | D. F. Houston..... | 41 66 |
| | 811 | Salary | A. C. Love..... | 100 00 |
| | 812 | Salary | C. P. Fountain..... | 133 33 |
| | 813 | Salary | J. E. Platt..... | 100 00 |
| | 814 | Salary | E. E. Townes..... | 100 00 |
| | 815 | Salary | C. S. Potts..... | 100 00 |
| | 816 | Salary | A. Mitchell..... | 60 00 |
| | 817 | Salary | F. S. Johnston..... | 200 00 |
| Dec. 10, 1902 | 912 | Military flag..... | Montgomery, Ward & Co..... | 7 38 |
| | 913 | Library labor | F. Moore..... | 11 00 |
| | 914 | Express | Pacific Express Co..... | 3 40 |
| | 915 | Labor | A. Thompson..... | 50 00 |
| | 916 | Express | W. F. Express Co..... | 1 50 |
| | 917 | Freight | H. & T. C. Ry. Co..... | 7 48 |
| | 918 | Express | W. F. Express Co..... | 1 35 |
| | 919 | Telegrams | W. U. Telegraph Co..... | 60 |
| | 920 | Freight | H. & T. C. Ry. Co..... | 5 20 |
| | 921 | Freight | H. & T. C. Ry. Co..... | 1 29 |
| | 922 | Labor | Young et al..... | 12 15 |
| | 923 | Labor | A. Necco..... | 1 50 |
| | 924 | Traveling expenses | M. Francis..... | 6 70 |
| | 925 | Express | W. F. Express Co..... | 65 |
| | 926 | Telegrams | W. U. Telegraph Co..... | 43 |
| | 927 | Labor | J. C. Atkins..... | 10 66 |
| | 928 | Labor | J. C. Atkins..... | 10 65 |
| | 929 | Labor | B. Youngblood..... | 40 00 |
| | 930 | Postage | W. C. Boyett..... | 5 00 |
| | 931 | Express | W. F. Express Co..... | 2 75 |
| | 932 | Express | W. F. Express Co..... | 60 |
| | 933 | Labor | J. C. Atkins..... | 10 70 |
| | 934 | Labor | J. C. Atkins..... | 10 66 |
| | 935 | Labor | R. Kinghorn..... | 35 00 |
| | 936 | Express | E. J. Kyle..... | 1 30 |

MAINTENANCE AND SUPPORT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|------------------------------|---------------------------------|---------|
| | 937 | Postage | W. C. Boyett..... | 10 60 |
| | 938 | Labor | Geo. Grupe et al..... | 300 00 |
| | 939 | Labor | E. M. Ross..... | 43 50 |
| | 940 | Freight | H. & T. C. Ry. Co..... | 33 |
| | 941 | Freight | H. & T. C. Ry. Co..... | 25 |
| | 942 | Express | W. F. Express Co..... | 55 |
| | 943 | Express | W. F. Express Co..... | 60 |
| | 944 | Express | W. F. Express Co..... | 25 |
| | 945 | Express | W. F. Express Co..... | 2 10 |
| | 946 | Express | W. F. Express Co..... | 65 |
| | 947 | Wages | W. W. Smith..... | 10 00 |
| | 948 | Wages | C. Roberts..... | 40 00 |
| | 949 | Wages | Wm. Finley..... | 40 00 |
| | 950 | Telegram | W. U. Telegraph Co..... | 25 |
| | 951 | Freight | H. & T. C. Ry. Co..... | 25 |
| Dec. 15, 1902 | 1061 | Hardware | F. W. Heitmann & Co..... | 6 67 |
| | 1062 | Hardware | J. A. Myers..... | 33 65 |
| | 1063 | Hardware | Diamond Match Co..... | 50 |
| | 1064 | Supplies | University Book Store..... | 68 |
| | 1065 | Filing cabinet | Globe-Wernicke Co..... | 7 50 |
| | 1066 | Supplies | Brown & Sharp Mfg. Co..... | 4 42 |
| | 1067 | Oil | W. P. Oil Co..... | 8 22 |
| | 1068 | Rejs. fees | Ed B. Voorhes..... | 30 00 |
| | 1069 | Subscriptions | Engineering News..... | 2 80 |
| | 1070 | Hardware | J. A. Myers..... | 7 40 |
| | 1071 | Phys. supplies | A. L. Robbins Martin Co..... | 73 86 |
| | 1072 | Military supplies | Wilson & Jenkins..... | 4 00 |
| | 1073 | Hardware | J. A. Myers..... | 1 00 |
| | 1074 | Supplies | So. Printers and Supply Co..... | 40 |
| | 1075 | Supplies | Wagner & Brandon..... | 68 |
| | 1076 | Supplies | Garth, Howell & Webb..... | 1 88 |
| | 1077 | Horticultural supplies | Burt Norwood..... | 6 15 |
| | 1078 | Veterinary supplies | Fred Macey..... | 16 00 |
| | 1079 | Hardware | Cole Hardware Co..... | 55 |
| | 1080 | Hardware | C. L. & Theo. Bering..... | 9 00 |
| | 1081 | Wagon | H. M. McFarland..... | 60 00 |
| | 1082 | Supplies | J. J. Pastoriza..... | 3 35 |
| | 1083 | Supplies | Garth, Howell & Webb..... | 3 20 |
| | 1084 | Material | Garth, Howell & Webb..... | 3 47 |
| | 1085 | Material | J. S. Harrison..... | 1 80 |
| | 1086 | Building room | Garth, Howell & Webb..... | 60 00 |
| Dec. 30, 1902 | 1138 | Express | W. F. Express Co..... | 35 |
| | 1139 | Labor | Robt. Robinson et al..... | 8 20 |
| | 1140 | Labor | L. Finley..... | 12 75 |
| | 1141 | Express | W. F. Express Co..... | 25 |
| | 1142 | Express | W. F. Express Co..... | 25 |
| | 1143 | Express | D. W. Spence..... | 1 00 |
| | 1144 | Freight | H. & T. C. Ry. Co..... | 5 48 |
| | 1145 | Labor | E. C. Noble..... | 40 00 |
| | 1146 | Freight | H. & T. C. Ry. Co..... | 18 90 |
| | 1147 | Freight | H. & T. C. Ry. Co..... | 7 01 |
| | 1148 | Postage | W. C. Boyett..... | 10 60 |
| | 1149 | Labor | B. Youngblood..... | 1 75 |
| | 1150 | Labor | A. E. Withers..... | 45 00 |
| | 1151 | Labor | W. H. McVey..... | 1 50 |
| | 1152 | Drawing supplies | T. Haswell..... | 1 00 |
| | 1191 | Salary | D. F. Houston..... | 41 66 |
| | 1192 | Salary | A. C. Love..... | 100 00 |
| | 1193 | Salary | C. P. Fountain..... | 133 33 |
| | 1194 | Salary | J. E. Platt..... | 100 00 |
| | 1195 | Salary | E. E. Townes..... | 100 00 |
| | 1196 | Salary | C. S. Potts..... | 100 00 |
| | 1197 | Salary | A. Mitchell..... | 60 00 |
| | 1198 | Salary | F. S. Johnston..... | 200 00 |
| Jan. 12, 1903 | 1233 | Wood | J. H. Suber..... | 231 19 |
| | 1234 | Printing | Bryan Eagle..... | 2 50 |
| | 1235 | Printing | T. E. Lloyd..... | 6 00 |
| | 1236 | Supplies | F. W. Heitmann & Co..... | 6 60 |
| | 1237 | Military supplies | Wilson & Jenkins..... | 1 00 |
| | 1238 | Hardware | J. A. Myers..... | 1 25 |
| | 1239 | Military supplies | Bryan Eagle..... | 1 50 |
| | 1240 | Phys. supplies | Garth, Howell & Webb..... | 2 15 |
| | 1241 | Phys. supplies | Borden Elect. Mch. Co..... | 19 75 |
| | 1242 | Phys. supplies | The Schapirograph Co..... | 2 00 |
| | 1243 | Seeds | J. W. Thorburn & Co..... | 5 99 |
| | 1244 | Hardware | J. A. Myers..... | 8 45 |
| | 1245 | Advertising | Paris News..... | 2 10 |

MAINTENANCE AND SUPPORT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-------------------------|--------------------------------|---------|
| | 1246 | Advertising | Bastrop Advertiser..... | 3 80 |
| | 1247 | Hardware | J. A. Myers..... | 1 25 |
| | 1248 | Rubber stamps | J. V. Love..... | 95 |
| | 1249 | Advertising | Nacogdoches Plain Dealer..... | 3 78 |
| | 1250 | Supplies | J. T. Hanway..... | 4 50 |
| | 1251 | Electrical supplies ... | Waco Electrical Supply Co..... | 2 63 |
| | 1252 | Telephone | Bryan Telephone Co..... | 2 00 |
| | 1253 | Hardware | J. A. Myers..... | 18 63 |
| | 1254 | Lumber | G. S. Parker..... | 21 79 |
| | 1255 | Electrical supplies ... | Waco Electrical Supply Co..... | 32 50 |
| | 1256 | Supplies | Garth, Howell & Webb..... | 1 34 |
| | 1257 | Telephone | Bryan Telephone Co..... | 2 00 |
| | 1258 | Horticultural supplies | H. A. Drier..... | 70 |
| | 1259 | Subscription | MacMillan Co..... | 1 27 |
| | 1260 | M. E. supplies..... | Garth, Howell & Webb..... | 15 53 |
| | 1261 | M. E. supplies..... | S. T. Baer Co..... | 42 50 |
| | 1262 | M. E. supplies..... | F. W. Heitmann & Co..... | 6 15 |
| | 1263 | M. E. supplies..... | Armstrong Bros. Tool Co..... | 5 50 |
| | 1264 | Oil | W. P. Oil Co..... | 6 35 |
| | 1421 | Labor | Geo. Grupe et al..... | 335 00 |
| | 1422 | Military supplies | Montgomery, Ward & Co..... | 1 43 |
| | 1423 | Labor | R. A. Kinghorn..... | 35 00 |
| | 1424 | Labor | N. F. Carson..... | 10 66 |
| | 1425 | Express | W. F. Express Co..... | 30 |
| | 1426 | Express | Pacific Express Co..... | 4 97 |
| | 1427 | Salary | Aug. Thompson..... | 50 00 |
| | 1428 | Salary | W. W. Smith..... | 10 00 |
| | 1429 | Postage | W. C. Boyett..... | 24 75 |
| | 1430 | Wages | Wm. Finley..... | 40 00 |
| | 1431 | Wages | C. Roberts..... | 40 00 |
| | 1432 | Express | W. F. Express Co..... | 25 |
| | 1433 | Express | W. F. Express Co..... | 2 15 |
| | 1434 | Freight | H. & T. C. Ry. Co..... | 19 66 |
| | 1435 | Express | D. W. Spence..... | 1 15 |
| | 1436 | Express | W. F. Express Co..... | 7 13 |
| | 1437 | Express | W. F. Express Co..... | 75 |
| | 1438 | Express | W. F. Express Co..... | 3 40 |
| | 1439 | Express | Pacific Express Co..... | 1 90 |
| | 1440 | Labor | N. F. Carson..... | 10 67 |
| | 1441 | Freight | H. & T. C. Ry. Co..... | 3 30 |
| | 1442 | Labor | B. Youngblood..... | 40 00 |
| | 1443 | Freight | H. & T. C. Ry. Co..... | 40 83 |
| | 1444 | Freight | H. & T. C. Ry. Co..... | 81 |
| | 1445 | Freight | H. & T. C. Ry. Co..... | 3 88 |
| | 1446 | Labor | W. J. Andrews..... | 20 60 |
| | 1447 | Labor | D. Gregg..... | 3 65 |
| | 1448 | Labor | E. C. Noble..... | 40 00 |
| | 1449 | Horse for Veterinary | J. F. Griffin..... | 5 00 |
| | 1450 | Horse for Veterinary | H. Johnson..... | 10 00 |
| | 1451 | Express | W. F. Express Co..... | 85 |
| | 1452 | Labor | T. H. Rone..... | 3 00 |
| | 1453 | Labor | F. C. Vannoy..... | 8 55 |
| | 1454 | Labor | Prince Adams..... | 5 75 |
| | 1455 | Labor | W. P. Wallace et al..... | 29 40 |
| | 1456 | Labor | W. P. Wallace et al..... | 23 75 |
| | 1457 | Freight | H. & T. C. Ry. Co..... | 63 |
| | 1458 | Freight | H. & T. C. Ry. Co..... | 12 50 |
| | 1459 | Freight | Pacific Express Co..... | 1 15 |
| | 1460 | Express | Pacific Express Co..... | 25 |
| Jan. 26, 1903 | 1545 | Building room | Garth, Howell & Webb..... | 60 00 |
| | 1546 | Campus supplies | Thos. Mehan & Son..... | 2 36 |
| | 1547 | H. Waddell | H. Waddell..... | 292 79 |
| | 1548 | Advertising | Houston Printing Co..... | 18 60 |
| | 1549 | Advertising | Pecos Valley News..... | 4 50 |
| | 1550 | Express | W. F. Express Co..... | 45 |
| | 1551 | Office supplies | The Schapirograph..... | 2 00 |
| | 1552 | Paper | Albany P. P. W. Co..... | 90 00 |
| | 1553 | Hardware | J. A. Myers..... | 6 98 |
| | 1554 | Phys. supplies | T. Haswell..... | 10 75 |
| | 1555 | Books | Army and Navy Pub. Co..... | 5 50 |
| | 1556 | Military supplies | Garth, Howell & Webb..... | 17 44 |
| | 1557 | Electrical supplies ... | Waco Electrical Supply Co..... | 2 63 |
| | 1558 | Horticultural supplies | J. H. McFarland & Co..... | 95 |
| Jan. 30, 1903 | 1593 | Salary | D. F. Houston..... | 41 66 |
| | 1594 | Salary | A. C. Love..... | 100 00 |

MAINTENANCE AND SUPPORT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-----------------------------|-------------------------------|---------|
| Feb. 10, 1903 | 1595 | Salary | C. P. Fountain..... | 133 33 |
| | 1596 | Salary | J. E. Platt..... | 100 00 |
| | 1597 | Salary | E. E. Townes..... | 100 00 |
| | 1598 | Salary | C. S. Potts..... | 100 00 |
| | 1599 | Salary | A. Mitchell..... | 60 00 |
| | 1600 | Salary | F. S. Johnston..... | 200 00 |
| | 1624 | Wood | J. H. Suber..... | 93 15 |
| | 1691 | Hardware | J. A. Myers..... | 53 78 |
| | 1692 | M. E. supplies..... | G. S. Parker..... | 9 02 |
| | 1693 | M. E. supplies..... | Garun, Howell & Webb..... | 3 61 |
| | 1694 | M. E. supplies..... | F. W. Heitmann & Co..... | 16 41 |
| | 1695 | M. E. supplies..... | Garth, Howell & Webb..... | 140 17 |
| | 1696 | M. E. supplies..... | Mosher Mfg. Co..... | 2 40 |
| | 1697 | M. E. supplies..... | G. S. Parker..... | 177 25 |
| | 1698 | M. E. supplies..... | Nash Robinson Co..... | 12 00 |
| | 1699 | M. E. supplies..... | Ginn & Co..... | 62 |
| | 1700 | Rubber stamp..... | J. V. Love..... | 85 |
| | 1701 | Drawing material..... | D. C. Heath & Co..... | 1 28 |
| | 1702 | Drawing material..... | John Wiley & Sons..... | 2 99 |
| | 1703 | Drawing material..... | F. Weber & Co..... | 39 60 |
| | 1704 | Drawing material..... | Bates & Guild..... | 7 00 |
| | 1705 | Oil..... | W. P. Oil Co..... | 35 10 |
| | 1706 | Laundry supplies..... | Alden Spears Sons & Co..... | 21 62 |
| | 1707 | Supplies..... | F. W. Heitmann & Co..... | 19 30 |
| | 1708 | Horticultural supplies..... | J. Steckler Seed Co..... | 9 40 |
| | 1709 | Horticultural supplies..... | Bryan Eagle..... | 2 50 |
| | 1710 | Horticultural supplies..... | F. Macey Co..... | 1 50 |
| | 1711 | Creamery supplies..... | Creamery Pkg. Mfg. Co..... | 64 97 |
| | 1712 | Agricultural supplies..... | Webb Bros..... | 3 50 |
| | 1714 | Agricultural supplies..... | Burrett & Lamb Dpt. Co..... | 3 15 |
| | 1715 | Agricultural supplies..... | P. M. Sharpless..... | 5 60 |
| | 1716 | Agricultural supplies..... | J. M. Vance..... | 3 25 |
| | 1717 | Books..... | T. Haswell..... | 160 25 |
| | 1718 | Hardware..... | J. A. Myers..... | 6 80 |
| | 1719 | Veterinary supplies..... | James Low..... | 4 00 |
| | 1720 | Veterinary supplies..... | Bryan Cotton Oil Co..... | 1 92 |
| | 1721 | Veterinary supplies..... | Blakestone Sons Co..... | 2 50 |
| | 1722 | Veterinary supplies..... | Journal of Microscopy..... | 1 00 |
| | 1723 | Military supplies..... | Garth, Howell & Webb..... | 1 60 |
| | 1724 | Telegrams..... | W. U. Telegraph Co..... | 2 40 |
| | 1725 | Supplies..... | Ben S. Read..... | 1 65 |
| | 1786 | Freight..... | I. & G. N. Ry. Co..... | 5 22 |
| | 1787 | Labor..... | Geo. Grupe et al..... | 359 20 |
| | 1788 | Labor..... | W. M. Finley..... | 40 00 |
| | 1789 | Labor..... | F. Post..... | 40 00 |
| | 1790 | Express..... | W. F. Express Co..... | 80 |
| | 1791 | Labor..... | W. W. Smith..... | 10 00 |
| | 1792 | Telegrams..... | S. W. Telephone Co..... | 2 60 |
| | 1793 | Labor..... | Aug. Thomson..... | 50 00 |
| | 1794 | Express..... | W. F. Express Co..... | 45 |
| | 1795 | Physician's supplies..... | D. W. Spence..... | 3 35 |
| | 1796 | Labor..... | N. F. Carson..... | 10 70 |
| | 1797 | Expenses..... | E. J. Kyle..... | 7 97 |
| | 1798 | Horticultural supplies..... | Cambridge Bot. Supply Co..... | 51 |
| | 1799 | Express..... | W. F. Express Co..... | 35 |
| | 1800 | Labor..... | R. Eberspacher..... | 1 00 |
| | 1801 | Labor..... | A. E. Withers..... | 5 00 |
| | 1802 | Freight..... | H. & T. C. Ry. Co..... | 49 |
| | 1803 | Veterinary supplies..... | Young & Co..... | 9 91 |
| | 1804 | Veterinary..... | H. Johnson..... | 10 00 |
| | 1805 | Veterinary..... | H. Johnson..... | 10 00 |
| | 1806 | Labor..... | R. A. Kinghorn..... | 5 00 |
| | 1807 | Veterinary..... | A. J. Tabor..... | 5 00 |
| | 1808 | Veterinary..... | Prince Adams..... | 7 00 |
| | 1809 | Drawing supplies..... | T. Haswell..... | 1 50 |
| | 1810 | Freight..... | I. & G. N. Ry. Co..... | 2 61 |
| | 1811 | Labor..... | B. Youngblood..... | 40 00 |
| | 1812 | Labor..... | N. F. Carson..... | 10 65 |
| | 1813 | Freight..... | H. & T. C. Ry. Co..... | 2 24 |
| | 1814 | Labor..... | H. Williams..... | 1 25 |
| | 1815 | Labor..... | W. W. Buchanan..... | 1 50 |
| | 1816 | Postage..... | W. C. Boyett..... | 5 00 |
| | 1817 | Labor..... | W. P. Wallace et al..... | 25 00 |
| | 1818 | Labor..... | W. P. Wallace et al..... | 25 65 |
| Feb. 25, 1903 | 1897 | Steam plant supplies..... | J. A. Myers..... | 3 75 |

MAINTENANCE AND SUPPORT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-----------------------------|-----------------------------------|---------|
| Feb. 28, 1903 | 1898 | Hardware..... | J. A. Myers..... | 8 25 |
| | 1899 | Seed | J. Steckler Seed Co..... | 9 35 |
| | 1900 | Books | D. Appleton & Co..... | 1 75 |
| | 1901 | Phys. supplies | A. Thompson & Co..... | 16 00 |
| | 1902 | Horticultural supplies..... | Lambert, Deacon & Hull..... | 8 50 |
| | 1902 | Military supplies..... | Bryan Eagle..... | 1 50 |
| | 1904 | Hardware..... | J. A. Myers..... | 50 |
| | 1905 | Military supplies..... | Lyon & Healy..... | 2 99 |
| | 1906 | Military supplies..... | T. Haswell..... | 3 00 |
| | 1934 | Salary | D. F. Houston..... | 41 66 |
| | 1935 | Salary | A. C. Love..... | 100 00 |
| | 1936 | Salary | C. P. Fountain..... | 133 33 |
| | 1937 | Salary | J. E. Platt..... | 100 00 |
| | 1938 | Salary | E. E. Townes..... | 100 00 |
| | 1939 | Salary | C. S. Potts..... | 100 00 |
| | 1940 | Salary | A. Mitchell..... | 60 00 |
| Mar. 12, 1903 | 1941 | Salary | F. S. Johnston..... | 200 00 |
| | 1966 | Wood | J. H. Suber..... | 200 65 |
| | 1988 | Books | Am. School of Correspondence..... | 20 00 |
| | 2001 | Veterinary supplies..... | Sharp & Smith..... | 3 03 |
| | 2002 | Veterinary supplies..... | Garth, Howell & Webb..... | 1 28 |
| | 2003 | Veterinary supplies..... | W. C. Boyett..... | 50 |
| | 2004 | Hardware..... | J. A. Myers..... | 21 33 |
| | 2005 | Veterinary supplies..... | Wilson & Jenkins..... | 4 85 |
| | 2006 | Veterinary supplies..... | Howell Bros..... | 5 00 |
| | 2007 | Supplies | Thompson & Campbell..... | 2 40 |
| | 2008 | Hardware..... | Cole Hardware Co..... | 1 75 |
| | 2009 | Paper..... | Giles Wall Paper Co..... | 9 68 |
| | 2010 | Military supplies..... | Garth, Howell & Webb..... | 75 |
| | 2011 | Military supplies..... | Clarke & Courts..... | 12 00 |
| | 2012 | Telegrams | S. W. Tel. Co..... | 30 |
| | 2013 | Rubber stamp..... | J. V. Love..... | 95 |
| | 2014 | Hardware..... | J. A. Myers..... | 7 90 |
| | 2015 | Supplies | J. T. Hanway..... | 75 |
| | 2016 | Office supplies..... | J. J. Pastoriza Co..... | 8 75 |
| | 2017 | Telephone..... | S. W. Tel. Co..... | 2 70 |
| | 2018 | Supplies | D. Bradley Mfg. Co..... | 5 00 |
| | 2019 | Campus supplies..... | Garth, Howell & Webb..... | 2 00 |
| | 2020 | Campus supplies..... | E. R. Emil..... | 40 |
| | 2021 | Books | MacMillan Co..... | 6 96 |
| | 2022 | Hardware..... | J. A. Myers..... | 30 50 |
| | 2023 | Lumber | Garth, Howell & Webb..... | 23 00 |
| | 2024 | Steam plant supplies..... | F. W. Heitmann & Co..... | 40 74 |
| | 2025 | Electrical supplies..... | Northn. Elect. Mfg. Co..... | 1 25 |
| | 2026 | Steam plant supplies..... | Wagner & Brandon..... | 2 50 |
| | 2027 | Oil | W. P. Oil Co..... | 14 28 |
| | 2028 | Horticulture..... | W. C. Greenlock..... | 10 00 |
| | 2029 | Book | American Book Co..... | 90 |
| | 2030 | Subscriptions | Engineering News..... | 3 80 |
| | 2031 | Drawing supplies..... | C. L. & Theo. Bering..... | 1 05 |
| | 2032 | Drawing supplies..... | Williams Braun & Co..... | 6 89 |
| | 2033 | Drawing supplies..... | E. Dietzgen..... | 65 |
| | 2034 | Books | John Wiley & Sons..... | 4 13 |
| | 2035 | Agricultural supplies..... | G. H. Pittman..... | 7 50 |
| | 2055 | Wood | J. H. Suber..... | 73 91 |
| | 2056 | Express | W. F. Express Co..... | 60 |
| | 2057 | Phys. supplies | D. W. Spence..... | 85 |
| | 2058 | Express..... | Pacific Express Co..... | 45 |
| | 2059 | Express..... | Pacific Express Co..... | 25 |
| | 2060 | Express..... | W. F. Express Co..... | 80 |
| | 2061 | Express..... | Pacific Express Co..... | 30 |
| | 2062 | Telegrams | W. U. Telegraph Co..... | 75 |
| | 2063 | Labor..... | Geo. Grupe et al..... | 355 00 |
| | 2064 | Freight | H. & T. C. Ry. Co..... | 1 91 |
| | 2065 | Campus supplies..... | W. C. Boyett..... | 98 |
| | 2066 | Labor..... | Aug. Thomson..... | 50 00 |
| | 2067 | Express..... | W. F. Express Co..... | 1 85 |
| | 2068 | Express..... | W. F. Express Co..... | 25 |
| | 2069 | Freight | H. & T. C. Ry. Co..... | 1 05 |
| | 2070 | Freight | H. & T. C. Ry. Co..... | 42 |
| | 2071 | Hardware..... | Harrison & Winchell..... | 75 |
| | 2072 | Labor..... | B. Youngblood..... | 40 00 |
| | 2073 | Labor..... | E. C. Noble..... | 5 00 |
| | 2074 | Labor..... | Prince Adams..... | 7 00 |
| | 2075 | Veterinary..... | H. Johnson..... | 6 00 |

MAINTENANCE AND SUPPORT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-----------------------------|------------------------------|---------|
| Mar. 29, 1903 | 2076 | Horticulture..... | E. C. Green..... | 2 50 |
| | 2077 | Labor..... | N. F. Carson..... | 10 70 |
| | 2078 | Express..... | Pacific Express Co..... | 85 |
| | 2079 | Express..... | W. F. Express Co..... | 1 20 |
| | 2080 | Labor..... | F. Post..... | 40 00 |
| | 2081 | Labor..... | Wm. Finley..... | 40 00 |
| | 2082 | Labor..... | W. W. Smith..... | 10 00 |
| | 2083 | Express..... | W. F. Express Co..... | 30 |
| | 2084 | Military..... | Geo. Southwell..... | 5 25 |
| | 2112 | Freight..... | I. & G. N. Ry. Co..... | 1 50 |
| | 2207 | C. E. supplies..... | E. Dietzgen & Co..... | 309 31 |
| | 2208 | C. E. supplies..... | W. & L. E. Gurley..... | 17 25 |
| | 2209 | C. E. supplies..... | MacMillan Co..... | 2 68 |
| | 2210 | Telephone..... | Bryan Telephone Co..... | 1 00 |
| | 2211 | Contingent..... | T. Haswell..... | 65 |
| Mar. 30, 1903 | 2212 | Telegrams..... | W. U. Telegraph Co..... | 2 85 |
| | 2213 | Veterinary supplies..... | Wilson & Jenkins..... | 7 20 |
| | 2214 | Veterinary supplies..... | T. Haswell..... | 2 05 |
| | 2215 | Veterinary supplies..... | J. A. Myers..... | 15 00 |
| | 2216 | Drawing supplies..... | T. A. Kessler..... | 41 66 |
| | 2247 | Salary..... | D. F. Houston..... | 100 00 |
| | 2248 | Salary..... | A. C. Love..... | 133 33 |
| | 2249 | Salary..... | C. P. Fountain..... | 100 00 |
| | 2250 | Salary..... | J. E. Platt..... | 100 00 |
| | 2251 | Salary..... | E. E. Townes..... | 100 00 |
| Apr. 15, 1903 | 2252 | Salary..... | C. S. Potts..... | 60 00 |
| | 2253 | Salary..... | A. Mitchell..... | 200 00 |
| | 2254 | Salary..... | F. S. Johnston..... | 234 90 |
| | 2280 | Wood..... | J. H. Suber..... | 2 90 |
| | 2368 | Hardware..... | J. A. Myers..... | 35 48 |
| | 2377 | Oil..... | W. P. Oil Co..... | 1 20 |
| | 2378 | Tools..... | Armstrong Bros. Tool Co..... | 6 13 |
| | 2379 | Steam plant supplies..... | A. L. Robbins Martin Co..... | 13 86 |
| | 2380 | Steam plant supplies..... | American Steam Pump Co..... | 26 00 |
| | 2381 | Steam plant supplies..... | American Engine Co..... | 1 80 |
| | 2382 | Steam plant supplies..... | Beaumont Iron Works..... | 6 91 |
| | 2383 | Steam plant supplies..... | F. W. Heitmann & Co..... | 48 39 |
| | 2384 | Steam plant supplies..... | F. W. Heitmann & Co..... | 9 90 |
| | 2385 | Steam plant supplies..... | F. W. Heitmann & Co..... | 51 90 |
| | 2386 | Hardware..... | J. A. Myers..... | 4 40 |
| | 2387 | Hardware..... | J. A. Myers..... | 13 61 |
| | 2388 | Supplies..... | Garth, Howell & Webb..... | 2 90 |
| | 2389 | Supplies..... | Garth, Howell & Webb..... | 6 26 |
| | 2390 | Books..... | John Wiley & Sons..... | 6 25 |
| | 2391 | Library..... | Clarke & Courts..... | 16 00 |
| | 2392 | Botany..... | Levy Bros..... | 5 00 |
| | 2393 | C. E. supplies..... | T. H. Kessler..... | 5 40 |
| | 2394 | Hardware..... | J. A. Myers..... | 16 25 |
| | 2395 | C. E. supplies..... | The M. P. Express Co..... | 28 83 |
| | 2396 | C. E. supplies..... | Garth, Howell & Webb..... | 1 80 |
| | 2397 | Horticultural supplies..... | Garth, Howell & Webb..... | 12 68 |
| | 2398 | Seeds..... | J. Steckler Seed Co..... | 3 50 |
| | 2399 | Veterinary supplies..... | Lea Bros..... | 7 20 |
| | 2400 | Veterinary supplies..... | A. H. Andrews & Co..... | 17 75 |
| | 2401 | Campus supplies..... | Walter Tips..... | 6 75 |
| | 2402 | Hardware..... | J. A. Myers..... | 1 85 |
| | 2403 | Campus supplies..... | Howell Bros..... | 17 50 |
| | 3404 | Campus supplies..... | Austin Nursery..... | 10 60 |
| | 2515 | Labor..... | N. F. Carson..... | 10 60 |
| | 2516 | Agricultural labor..... | J. F. Adams..... | 1 80 |
| | 2517 | Labor..... | B. Youngblood..... | 40 00 |
| | 2518 | Labor..... | B. Youngblood..... | 4 43 |
| | 2519 | Freight..... | I. & G. N. Ry. Co..... | 5 65 |
| | 2520 | Freight..... | I. & G. N. Ry. Co..... | 45 |
| | 2521 | Agricultural supplies..... | W. C. Boyett..... | 10 70 |
| | 2522 | Horticultural labor..... | J. T. Adams..... | 10 60 |
| | 2523 | Postage..... | W. C. Boyett..... | 1 70 |
| | 2524 | Express..... | W. F. Express Co..... | 1 50 |
| | 2525 | Military supplies..... | W. C. Boyett..... | 1 57 |
| | 2526 | Freight..... | I. & G. N. Ry. Co..... | 1 19 |
| | 2527 | Freight..... | H. & T. C. Ry. Co..... | 75 |
| | 2528 | Library..... | T. Haswell..... | 50 00 |
| | 2529 | Labor..... | Aug. Thomson..... | 35 |
| | 2530 | Express..... | Pacific Express Co..... | 1 85 |
| | 2531 | Veterinary..... | L. B. Williamson..... | |

MAINTENANCE AND SUPPORT ACCOUNT—continued.

| Date, | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|------------------------|---------------------------------|---------|
| | 2532 | Veterinary | F. J. Froelick..... | 5 00 |
| | 2533 | Labor..... | Geo. Grupe et al..... | 370 00 |
| | 2534 | Telegrams | W. U. Telegraph Co..... | 1 12 |
| | 2535 | Express..... | Pacific Express Co..... | 24 50 |
| | 2536 | Freight..... | I. & G. N. Ry. Co..... | 2 22 |
| | 2537 | Freight..... | I. & G. N. Ry. Co..... | 1 50 |
| | 2539 | Express..... | W. F. Express Co..... | 1 37 |
| | 2540 | Express..... | W. F. Express Co..... | 70 |
| | 2541 | Express..... | W. F. Express Co..... | 1 15 |
| | 2542 | Labor..... | W. W. Smith..... | 10 00 |
| | 2543 | Hardware..... | J. A. Myers..... | 30 |
| | 2544 | Freight..... | H. & T. C. Ry. Co..... | 1 89 |
| | 2545 | Express..... | Pacific Express Co..... | 60 |
| | 2546 | Express..... | W. F. Express Co..... | 1 20 |
| | 2547 | Express..... | W. F. Express Co..... | 1 15 |
| | 2548 | Express..... | Pacific Express Co..... | 1 85 |
| | 2549 | Express..... | Pacific Express Co..... | 30 |
| | 2550 | Labor..... | Darter et al..... | 9 10 |
| | 2551 | M. E. supplies..... | F. Macey & Co..... | 55 |
| | 2552 | M. E. supplies..... | E. Dietzgen & Co..... | 88 |
| Apr. 18, 1903 | 2554 | Wood..... | J. H. Suber..... | 137 00 |
| Apr. 28, 1903 | 2639 | Steam plant supplies | Cook Well Co..... | 28 10 |
| | 2640 | Steam plant supplies | F. W. Heitmann & Co..... | 9 17 |
| | 2641 | Steam plant supplies | Cook Well Co..... | 16 20 |
| | 2642 | Campus supplies..... | Walter Tips..... | 1 04 |
| | 2643 | Campus supplies..... | Montgomery, Ward & Co..... | 5 98 |
| | 2644 | Horseshoeing..... | W. B. Grice..... | 1 00 |
| | 2645 | Office supplies..... | Clarke & Courts..... | 4 80 |
| | 2646 | Office supplies..... | Remington Typewriter Co..... | 3 17 |
| | 2647 | Horticultural supplies | G. H. Pittman..... | 4 50 |
| | 2648 | Horticultural supplies | University Co-operative Co..... | 1 00 |
| | 2649 | Horticultural supplies | Taylor & Carpenter..... | 92 |
| | 2650 | M. E. supplies..... | Kieffel & Esser..... | 5 52 |
| | 2651 | M. E. supplies..... | F. W. Heitmann & Co..... | 1 14 |
| | 2652 | M. E. supplies..... | F. Weber & Co..... | 3 44 |
| | 2653 | M. E. supplies..... | J. T. Holcomb & Co..... | 1 50 |
| | 2654 | Hardware..... | J. A. Myers..... | 3 30 |
| | 2655 | Stationery | Austin Book & Stat. Co..... | 1 49 |
| | 2682 | Salary..... | D. F. Houston..... | 41 66 |
| | 2683 | Salary..... | A. C. Love..... | 100 00 |
| | 2684 | Salary..... | C. P. Fountain..... | 133 33 |
| | 2685 | Salary..... | J. E. Platt..... | 100 00 |
| | 2686 | Salary..... | E. E. Townes..... | 100 00 |
| | 2687 | Salary..... | C. S. Potts..... | 100 00 |
| | 2688 | Salary..... | A. Mitchell..... | 60 00 |
| | 2689 | Salary..... | F. S. Johnston..... | 200 00 |
| May 22, 1903 | 2763 | M. E. supplies..... | Dansby & Dansby..... | 1 00 |
| | 2764 | Stationery | Austin Book & Stat. Co..... | 6 10 |
| | 2765 | Steam plant supplies | Diamond Meter Co..... | 12 00 |
| | 2766 | Steam plant supplies | F. W. Heitmann & Co..... | 15 27 |
| | 2767 | Hardware..... | J. A. Myers..... | 48 15 |
| | 2768 | Steam plant supplies | F. W. Heitmann & Co..... | 5 29 |
| | 2769 | Steam plant supplies | W. P. Oil Co..... | 9 03 |
| | 2770 | Steam plant supplies | F. W. Heitmann & Co..... | 18 38 |
| | 2771 | Botany..... | Lemcke & Beuchner..... | 1 00 |
| | 2772 | Botany..... | Botanical Supply Co..... | 2 20 |
| | 2773 | Botany..... | Bausch & Lomb Optical Co..... | 116 25 |
| | 2774 | Agricultural supplies | P. Blakestone & Sons..... | 3 75 |
| | 2775 | Agricultural supplies | B. Norwood..... | 2 32 |
| | 2776 | Agricultural supplies | Garth, Howell & Webb..... | 1 80 |
| | 2777 | Agricultural supplies | T. Haswell..... | 7 15 |
| | 2778 | Hardware..... | J. A. Myers..... | 17 40 |
| | 2779 | Agricultural supplies | Bausch & Lomb Optical Co..... | 2 27 |
| | 2780 | Agricultural supplies | Creamery Pkg. Mfg. Co..... | 25 31 |
| | 2781 | Library..... | Baker & Taylor Co..... | 5 83 |
| | 2782 | Library..... | T. J. Fitzpatrick..... | 10 00 |
| | 2783 | Military supplies..... | Carl Fisher..... | 63 |
| | 2784 | Military supplies..... | T. Haswell..... | 20 |
| | 2785 | Military supplies..... | Bryan Eagle..... | 7 25 |
| | 2786 | Hardware..... | J. A. Myers..... | 35 |
| | 2787 | Military supplies..... | Bryan Eagle..... | 1 50 |
| | 2788 | Military supplies..... | Garth, Howell & Webb..... | 3 20 |
| | 2789 | Military supplies..... | T. Haswell..... | 46 |
| | 2790 | Veterinary..... | T. Haswell..... | 2 35 |
| | 2791 | Veterinary..... | T. Haswell..... | 4 25 |

MAINTENANCE AND SUPPORT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-----------------------------|---------------------------------|---------|
| | 2792 | Veterinary..... | Garth, Howell & Webb..... | 10 05 |
| | 2793 | Veterinary..... | J. L. Mitchell..... | 8 00 |
| | 2794 | Veterinary..... | Sharpe & Smith..... | 4 25 |
| | 2795 | Veterinary..... | Hill Bros. & Co..... | 41 93 |
| | 2796 | Phys. supplies..... | T. Haswell..... | 3 03 |
| | 2922 | Labor..... | Geo. Grupe et al..... | 335 00 |
| | 2923 | Labor..... | C. Bloodworth..... | 32 65 |
| | 2824 | Labor..... | Dan Ward..... | 75 |
| | 2925 | Postage..... | W. C. Boyett..... | 2 00 |
| | 2926 | Military supplies..... | Montgomery, Ward & Co..... | 6 94 |
| | 2927 | Botanical supplies..... | Chas. Ferrell..... | 32 00 |
| | 2928 | Labor..... | A. Thompson..... | 50 00 |
| | 2929 | Express..... | W. F. & Pac. Ex. Cos..... | 1 40 |
| | 2930 | Labor..... | T. R. Carson..... | 15 00 |
| | 2965 | Express..... | W. F. Express Co..... | 2 20 |
| | 2966 | Express..... | W. F. Express Co..... | 50 |
| | 2967 | Express..... | W. F. Express Co..... | 1 25 |
| | 2968 | Express..... | Pacific Express Co..... | 55 |
| | 2969 | Telegrams..... | W. U. Telegraph Co..... | 1 24 |
| | 2970 | Telegrams..... | W. U. Telegraph Co..... | 1 04 |
| | 2971 | Express..... | Pacific Express Co..... | 3 10 |
| | 2972 | Express..... | W. F. Express Co..... | 35 |
| | 2973 | Freight..... | H. & T. C. Ry. Co..... | 70 |
| | 2974 | Telegrams..... | W. U. Telegraph Co..... | 75 |
| | 2975 | Express..... | W. F. Express Co..... | 85 |
| | 2976 | Freight..... | I. & G. N. Ry. Co..... | 1 24 |
| | 2977 | Express..... | Pacific Express Co..... | 1 50 |
| | 2978 | Express..... | Pacific Express Co..... | 30 |
| | 2979 | Express..... | W. F. Express Co..... | 2 50 |
| | 2980 | M. E. supplies..... | W. C. Boyett..... | 2 12 |
| | 2981 | Labor..... | A. E. Withers..... | 2 00 |
| | 2982 | Labor..... | A. E. Withers..... | 10 00 |
| | 2983 | Freight..... | I. & G. N. Ry. Co..... | 1 24 |
| | 2984 | Express..... | W. F. Express Co..... | 3 25 |
| May 30, 1903 | 3012 | Salary..... | D. F. Houston..... | 41 66 |
| | 3013 | Salary..... | A. C. Love..... | 100 00 |
| | 3014 | Salary..... | C. P. Fountain..... | 133 33 |
| | 3015 | Salary..... | J. E. Platt..... | 100 00 |
| | 3016 | Salary..... | E. E. Townes..... | 100 00 |
| | 3017 | Salary..... | C. S. Potts..... | 100 00 |
| | 3018 | Salary..... | A. Mitchell..... | 60 00 |
| | 3019 | Salary..... | F. S. Johnston..... | 200 00 |
| June 10, 1903 | 3066 | Salary..... | A. C. Love..... | 33 33 |
| | 3067 | Salary..... | C. P. Fountain..... | 44 45 |
| | 3068 | Salary..... | J. E. Platt..... | 33 33 |
| | 3069 | Salary..... | E. E. Townes..... | 33 33 |
| | 3070 | Salary..... | C. S. Potts..... | 33 33 |
| | 3071 | Salary..... | A. Mitchell..... | 20 00 |
| | 3072 | Salary..... | F. S. Johnston..... | 66 67 |
| | 3159 | Drawing material..... | E. Dietzgen Co..... | 3 40 |
| | 3160 | Hardware..... | J. A. Myers..... | 1 00 |
| | 3161 | M. E. supplies..... | Garth, Howell & Webb..... | 24 82 |
| | 3162 | M. E. supplies..... | Garth, Howell & Webb..... | 1 60 |
| | 3163 | M. E. supplies..... | F. W. Heitmann & Co..... | 96 |
| | 3164 | M. E. supplies..... | James & Hart..... | 1 20 |
| | 3165 | Electrical supplies..... | Waco Electrical Supply Co..... | 2 06 |
| | 3166 | M. E. supplies..... | T. Haswell..... | 1 15 |
| | 3167 | C. E. supplies..... | Chem. Dept. A. & M. C..... | 4 00 |
| | 3168 | C. E. department..... | J. C. Nagle..... | 15 46 |
| | 3169 | C. E. supplies..... | T. Haswell..... | 7 50 |
| | 3170 | Steam plant..... | T. L. Cross & Co..... | 6 00 |
| | 3171 | Steam plant..... | Jarecke Mfg. Co..... | 12 80 |
| | 3172 | Electrical supplies..... | Western Electrical Sup. Co..... | 35 06 |
| | 3173 | Steam plant supplies..... | N. Randolph & Sons..... | 2 60 |
| | 3174 | Steam plant supplies..... | Lone Star Oil Co..... | 16 80 |
| | 3175 | Hardware..... | J. A. Myers..... | 47 93 |
| | 3176 | Steam plant supplies..... | F. W. Heitmann & Co..... | 37 00 |
| | 3177 | Library..... | American Entomological Co..... | 32 50 |
| | 3178 | Dairy supplies..... | P. M. Sharples..... | 6 77 |
| | 3179 | Contingent..... | Lorenz Pub. Co..... | 1 15 |
| | 3180 | Contingent..... | J. Haswell..... | 1 75 |
| | 3181 | Office supplies..... | Clarke & Courts..... | 65 |
| | 3182 | Seeds..... | Texas Seed & Floral Co..... | 4 47 |
| | 3183 | Horticultural supplies..... | Garth, Howell & Webb..... | 2 94 |
| | 3184 | Horticultural supplies..... | Treas. Acct. A. & M. C..... | 84 00 |

MAINTENANCE AND SUPPORT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|----------------------------|--------------------------------|---------|
| | 3185 | Campus supplies..... | Treas. Acct. A. & M. C..... | 42 00 |
| | 3220 | Labor..... | W. Youngblood..... | 14 05 |
| | 3221 | Labor..... | J. L. Whittle..... | 12 50 |
| | 3222 | Labor..... | T. A. Moore..... | 27 50 |
| | 3223 | Labor..... | Elmo Pearson et al..... | 8 50 |
| | 3224 | M. E. repairs..... | E. L. Brobley..... | 18 00 |
| | 3225 | Labor..... | A. Thompson..... | 50 00 |
| | 3226 | Labor..... | A. E. Withers..... | 27 90 |
| | 3227 | Labor..... | Chas. Terrell..... | 32 00 |
| | 3228 | Agricultural supplies..... | J. H. Suber..... | 7 76 |
| | 3272 | Labor..... | Geo. Grupe et al..... | 331 10 |
| | 3273 | Military supplies..... | Wilson & Jenkins..... | 7 75 |
| | 3274 | Military supplies..... | Subs. Dept. A. & M. C..... | 5 35 |
| | 3275 | Military supplies..... | T. Haswell..... | 3 80 |
| | 3276 | Hardware..... | J. A. Myers..... | 9 25 |
| | 3277 | Telephone..... | S. W. Tel. Co..... | 2 80 |
| | 3278 | Labor..... | F. Buttery..... | 20 75 |
| June 10, 1903 | 3279 | Botanical..... | Mr. Smoot..... | 7 75 |
| | 3280 | Physics..... | Subsistence Acct. A. M. C..... | 1 59 |
| | 3340 | Military..... | W. F. Express Co..... | 60 |
| | 3341 | Steam plant..... | W. F. Express Co..... | 1 50 |
| | 3342 | Contingent..... | W. F. Express Co..... | 25 |
| June 30, 1903 | 3343 | Contingent..... | W. F. Express Co..... | 43 |
| | 3363 | Salary..... | D. F. Houston..... | 41 66 |
| | 3427 | Campus..... | A. Thompson..... | 50 00 |
| | 3428 | Contingent..... | W. U. Telegraph Co..... | 27 |
| | 3429 | Contingent..... | Pacific Express Co..... | 25 |
| | 3430 | Contingent..... | W. F. Express Co..... | 25 |
| | 3431 | Contingent..... | W. F. Express Co..... | 25 |
| | 3432 | Steam plant..... | Geo. Groupe et al..... | 151 65 |
| | 3433 | Steam plant..... | I. & G. N. Ry. Co..... | 1 10 |
| | 3434 | Steam plant..... | I. & G. N. Ry. Co..... | 1 40 |
| | 3435 | Steam plant..... | I. & G. N. Ry. Co..... | 1 37 |
| | 3436 | Steam plant..... | I. & G. N. Ry. Co..... | 2 69 |
| | 3437 | Steam plant..... | H. & T. C. Ry. Co..... | 36 |
| | 3438 | Steam plant..... | W. F. Express Co..... | 5 80 |
| | 3439 | Military..... | Montgomery, Ward & Co..... | 6 50 |
| | 3440 | Horticulture..... | E. J. Kyle..... | 4 45 |
| July 10, 1903 | 3441 | Horticulture..... | Jas. Carroll et al..... | 11 60 |
| | 3469 | Steam plant..... | Dean Steam Pump Co..... | 17 89 |
| | 3470 | Steam plant..... | Garth, Howell & Webb..... | 3 50 |
| | 3471 | Steam plant..... | Lone Star Oil Co..... | 29 40 |
| | 3472 | Steam plant..... | Waco Supply Co..... | 42 50 |
| | 3473 | Steam plant..... | Lone Star Oil Co..... | 17 50 |
| July 10, 1903 | 3474 | Steam plant..... | F. W. Heitmann & Co..... | 22 16 |
| | 3475 | Contingent..... | J. A. Myers..... | 14 50 |
| | 3476 | Contingent..... | W. U. Telegraph Co..... | 4 65 |
| | 3477 | Contingent..... | Southwestern T. and T. Co..... | 6 15 |
| July 16, 1903 | 3478 | Steam plant..... | J. H. Suber (wood)..... | 162 50 |
| | 3494 | Steam plant..... | Clarke & Courts..... | 8 75 |
| | 3494 | Steam plant..... | F. E. Mistrot..... | 3 33 |
| | 3496 | Campus..... | W. B. Grice..... | 2 00 |
| | 3479 | Agriculture..... | J. A. Myers..... | 2 00 |
| | 3498 | Horticulture..... | C. J. Hunn..... | 6 02 |
| | 3524 | Agriculture..... | Charles Terrell..... | 20 00 |
| | 2525 | Agriculture..... | Dan Jackson..... | 1 00 |
| | 3526 | Horticulture..... | J. T. Riggs..... | 4 50 |
| July 24, 1903 | 3542 | Agriculture..... | J. H. Suber..... | 13 17 |
| July 30, 1903 | 3561 | Salary..... | D. F. Houston..... | 41 66 |
| Aug. 1, 1903 | 3611 | Campus..... | F. W. Heitmann & Co..... | 4 15 |
| | 3612 | Steam plant..... | Jareckie Mfg. Co..... | 1 86 |
| | 3613 | Steam plant..... | W. C. Boyett..... | 12 00 |
| | 3614 | Steam plant..... | Babcock & Wilcox Co..... | 3 00 |
| | 3615 | Horticulture..... | J. A. Myers..... | 31 25 |
| | 3616 | Horticulture..... | Houston Drug Co..... | 2 00 |
| | 3617 | Agriculture..... | W. Paint Co..... | 9 34 |
| | 3618 | Agriculture..... | Howell Brothers..... | 5 00 |
| | 3619 | Agriculture..... | W. P. Oil Co..... | 4 00 |
| | 3645 | Steam plant..... | Geo. Grupe..... | 90 00 |
| | 3646 | Steam plant..... | Pacific Express Co..... | 1 80 |
| | 3647 | Steam plant..... | I. & G. N. Ry. Co..... | 1 37 |
| | 3648 | Contingent..... | Pacific Express Co..... | 25 |
| | 3649 | Contingent..... | W. F. Express Co..... | 85 |
| | 3650 | Horticulture..... | M. Caldwell et al..... | 24 25 |
| Aug. 1, 1903 | 3651 | Horticulture..... | F. Farley..... | 82 90 |

MAINTENANCE AND SUPPORT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|----------------|-------------|-------------------------|-------------------------------|---------|
| | 3652 | Horticulture..... | H. & T. C. Ry. Co..... | 5 00 |
| | 3653 | Horticulture..... | E. J. Kyle..... | 5 81 |
| | 3654 | Military..... | H. & T. C. Ry. Co..... | 1 37 |
| | 3655 | Campus..... | A. Thompson..... | 50 00 |
| | 3656 | Campus..... | H. Williams..... | 3 75 |
| Aug. 15, 1903 | 3671 | Steam plant..... | Stevenson Machine & Rep. Co. | 28 00 |
| | 3672 | Military..... | J. A. Myers..... | 1 25 |
| Aug. 25, 1903 | 3696 | Steam plant..... | Alden Spears Sons & Co..... | 118 53 |
| | 3697 | Steam plant..... | Dodge Mfg. Co..... | 29 52 |
| | 3698 | Steam plant..... | Garth, Howell & Webb..... | 12 67 |
| | 3699 | Steam plant..... | Fairweather & Londew..... | 49 41 |
| | 3700 | Campus..... | J. A. Myers..... | 47 65 |
| | 3701 | Agriculture..... | W. P. Oil Co..... | 3 00 |
| Aug. 30, 1903 | 3740 | Salary..... | D. F. Houston..... | 41 66 |
| | 3791 | Steam plant..... | H. & T. C. Ry. Co..... | 1 24 |
| | 3792 | Steam plant..... | H. & T. C. Ry. Co..... | 4 95 |
| | 3793 | Steam plant..... | H. & T. C. Ry. Co..... | 1 24 |
| | 3794 | Steam plant..... | Pacific Express Co..... | 1 35 |
| | 3795 | Steam plant..... | Pussly James et al..... | 3 25 |
| | 3796 | Steam plant..... | T. Hutson..... | 9 00 |
| | 3797 | Geisecke's kitchen..... | T. Haswell..... | 2 46 |
| | 3798 | Horticulture..... | E. J. Kyle..... | 9 45 |
| | 3799 | Campus..... | W. Burns..... | 75 |
| | 3800 | Campus..... | H. Williams..... | 6 00 |
| | 3801 | Contingent..... | W. U. Telephone Co..... | 1 00 |
| Aug. 31, 1903 | 3821 | Steam plant..... | Geo. Grupe..... | 90 00 |
| | 3822 | Campus..... | Aug. Thompson..... | 50 00 |
| | 3823 | Horticulture..... | E. J. Kyle..... | 6 85 |
| Aug. 31, 1903 | 3824 | Horticulture..... | G. H. Pittman..... | 12 35 |
| | 3837 | Campus..... | Farm Dept. A. M. C..... | 34 00 |
| | 3838 | Campus..... | W. B. Grice..... | 2 00 |
| | 3839 | Steam plant..... | Detroit Lubricator Co..... | 18 00 |
| | 3840 | Steam plant..... | Jenkins Bros..... | 15 85 |
| | 3841 | Steam plant..... | Sauls Bros..... | 3 00 |
| | 3842 | Steam plant..... | Garth, Howell & Webb..... | 3 75 |
| | 3845 | Military..... | Wm. Barr Dry Goods Co..... | 17 02 |
| | 3846 | Military..... | Simmons Hardware Co..... | 65 |
| | 3847 | Military..... | W. F. Express Co..... | 30 |
| Sept. 5, 1903 | 1 | Wood..... | J. H. Suber..... | 681 75 |
| | 32 | Contingent..... | Terrell Texas Star..... | 7 15 |
| | 33 | Contingent..... | Athens Review..... | 3 25 |
| | 34 | Contingent..... | Denton County Record..... | 7 15 |
| | 35 | Contingent..... | El Paso Daily Herald..... | 7 15 |
| | 36 | Contingent..... | Enterprise Publishing Co..... | 7 15 |
| | 37 | Contingent..... | Cameron Herald..... | 7 15 |
| | 38 | Contingent..... | Stockman Pub. Co..... | 7 15 |
| | 39 | Contingent..... | Ennis Weekly Local..... | 7 15 |
| | 40 | Contingent..... | Alvin Sun..... | 6 50 |
| | 41 | Contingent..... | Deutsche Zeitung..... | 7 15 |
| | 42 | Contingent..... | Herald Printing House..... | 7 15 |
| | 43 | Contingent..... | Frei Presse..... | 7 15 |
| | 44 | Contingent..... | Caller Publishing Co..... | 7 15 |
| | 45 | Contingent..... | Sunlight Publishing Co..... | 7 15 |
| Sept. 14, 1903 | 46 | Contingent..... | S. W. T. & T. Co..... | 1 00 |
| | 47 | Contingent..... | S. W. T. & T. Co..... | 3 85 |
| | 48 | Steam plant..... | F. Heitmann & Co..... | 65 81 |
| | 49 | Steam plant..... | Crosby Steam G. & V. Co..... | 125 00 |
| | 50 | Steam plant..... | Babcock & Wilcox Co..... | 52 75 |
| Sept. 14, 1903 | 53 | Entomology exp..... | American Entomology Society. | 4 00 |
| | 54 | Entomology exp..... | Moyer & Brandon..... | 4 37 |
| | 55 | Entomology exp..... | Clarke & Courts..... | 13 65 |
| | 56 | Entomology exp..... | J. T. Honoway..... | 29 15 |
| | 57 | Entomology exp..... | E. P. Sanderson..... | 80 00 |
| Sept. 21, 1903 | 111 | Steam plant..... | F. W. Heitmann & Co..... | 19 02 |
| | 112 | Military..... | Tyler Haswell..... | 50 |
| | 113 | Contingent..... | Archer Dispatch..... | 7 15 |
| | 114 | Contingent..... | Guide Printing Co..... | 7 15 |
| | 115 | Contingent..... | San Saba County News..... | 7 15 |
| | 116 | Contingent..... | Temple Times..... | 7 15 |
| | 117 | Contingent..... | Wise County Messenger..... | 7 20 |
| | 118 | Contingent..... | Llano Times..... | 5 85 |
| | 119 | Contingent..... | Mineola Courier..... | 7 15 |
| | 120 | Contingent..... | Guadalupe Gazette..... | 3 64 |
| | 121 | Contingent..... | Lampasas Leader..... | 7 15 |
| | 122 | Contingent..... | Enterprise Pub. Co..... | 7 15 |

MAINTENANCE AND SUPPORT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|----------------|-------------|--------------------------|-------------------------------|---------|
| Sept. 28, 1903 | 123 | Contingent..... | Gammel-Statesman Pub. Co..... | 6 65 |
| | 124 | Contingent..... | Star Forum..... | 7 15 |
| | 125 | Entomology exp..... | Athens Pottem Co..... | 2 43 |
| | 134 | Drawing..... | Garth, Howell & Webb..... | 17 41 |
| | 135 | Drawing..... | Collins Mfg. Co..... | 34 62 |
| | 136 | Contingent..... | Democrat Publishing Co..... | 7 15 |
| | 137 | Contingent..... | The Coleman Democrat..... | 7 15 |
| | 138 | Contingent..... | The Cuero Star..... | 7 15 |
| | 139 | Contingent..... | The Lando Times..... | 7 15 |
| | 140 | Contingent..... | The Guadalupe Gazette..... | 7 15 |
| | 141 | Contingent..... | Bastrop Advertiser..... | 7 10 |
| | 142 | Contingent..... | Crockett Courier..... | 7 15 |
| | 143 | Contingent..... | Houston Chronicle..... | 17 68 |
| | 144 | Contingent..... | Clarksville Times..... | 7 15 |
| | 145 | Contingent..... | Hoaxs Printery..... | 7 15 |
| | 146 | Contingent..... | Reporter Publishing Co..... | 6 15 |
| Sept. 30, 1903 | 147 | Contingent..... | Hallettsville Herald..... | 7 15 |
| | 148 | Contingent..... | Wharton Spectator..... | 7 15 |
| | 149 | Contingent..... | Conroe Courier..... | 7 15 |
| | 156 | Salary..... | D. F. Houston..... | 41 66 |
| | 157 | Salary..... | S. E. Gideon..... | 155 55 |
| | 158 | Salary..... | T. C. Bittle..... | 200 00 |
| | 159 | Salary..... | J. E. Platt..... | 100 00 |
| | 160 | Salary..... | G. E. Embry..... | 100 00 |
| | 161 | Salary..... | A. Mitchell..... | 83 33 |
| | 162 | Salary..... | W. W. Barington..... | 80 00 |
| | 163 | Salary..... | C. S. Potts..... | 133 33 |
| | 164 | Salary..... | F. S. Johnston..... | 104 16 |
| | 165 | Salary..... | J. H. Reitz..... | 133 33 |
| | 166 | Salary..... | G. S. Frapps..... | 45 55 |
| | 167 | Salary..... | W. C. Martin..... | 133 33 |
| | 168 | Salary..... | O. M. Ball..... | 222 22 |
| Sept. 30, 1903 | 169 | Salary..... | N. H. Brown..... | 277 77 |
| | 170 | Salary..... | D. W. Spence..... | 200 00 |
| | 171 | Salary..... | Ira Cain..... | 75 00 |
| | 172 | Salary..... | E. P. Sanderson..... | 145 83 |
| | 173 | Salary..... | A. F. Conradi..... | 83 33 |
| | 174 | Salary..... | L. Scholl..... | 66 66 |
| | 175 | Salary..... | Sam Harlan..... | 125 00 |
| | 176 | Salary..... | Z. A. McDonald..... | 50 00 |
| | 177 | Salary..... | M. R. Kelley..... | 60 00 |
| | 178 | Salary..... | J. Clough..... | 75 00 |
| | 179 | Salary..... | C. P. Fountain..... | 155 55 |
| | 180 | Salary..... | J. W. Carson..... | 125 00 |
| | 181 | Salary..... | M. Francis..... | 111 11 |
| | 182 | Salary..... | F. Post..... | 40 00 |
| | 237 | Entomology expense..... | Albert Stone..... | 2 00 |
| | 238 | Entomology expense..... | A. Carson..... | 1 55 |
| | 239 | Entomology expense..... | L. H. Scholl..... | 15 80 |
| | 240 | Entomology expense..... | E. P. Sanderson..... | 5 25 |
| | 241 | Entomology expense..... | E. P. Sanderson..... | 15 26 |
| | 242 | Entomology expense..... | E. P. Sanderson..... | 3 45 |
| | 243 | Entomology expense..... | E. P. Sanderson..... | 5 55 |
| | 244 | Entomology expense..... | E. P. Sanderson..... | 38 76 |
| | 273 | Drawing..... | I. & G. N. Ry. Co..... | 18 25 |
| | 274 | Drawing..... | Pacific Express Co..... | 4 35 |
| | 275 | Drawing..... | E. Pearson..... | 7 45 |
| | 276 | Drawing..... | I. & G. N. Ry. Co..... | 1 08 |
| | 277 | Drawing..... | Pacific Express Co..... | 45 |
| | 278 | Drawing..... | Theo. Schmiedelind..... | 59 70 |
| | 279 | Horticulture..... | E. C. Green..... | 8 55 |
| | 280 | Horticulture..... | E. J. Kyle..... | 8 38 |
| | 281 | Horticulture..... | John Carroll..... | 23 25 |
| | 282 | Horticulture..... | D. A. Hartman..... | 5 00 |
| | 283 | Mechan. engineering..... | W. A. Boyett, P. M..... | 2 12 |
| | 284 | Military..... | W. U. Telegraph Co..... | 25 |
| | 285 | Military..... | Pacific Express Co..... | 25 |
| | 286 | Contingent..... | W. F. Express Co..... | 35 |
| | 287 | Contingent..... | W. F. Express Co..... | 45 |
| | 288 | Contingent..... | Pacific Express Co..... | 30 |
| | 289 | Phy. and elc. engr..... | W. C. Boyett et al..... | 2 12 |
| | 290 | Steam plant..... | I. & G. N. Ry. Co..... | 1 77 |
| | 291 | Steam plant..... | W. C. Boyett..... | 42 |
| | 292 | Steam plant..... | Tom Hutson..... | 3 35 |
| | 293 | Steam plant..... | H. & T. C. Ry. Co..... | 14 99 |

MAINTENANCE AND SUPPORT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|--------------|-------------|--------------------------|----------------------------------|---------|
| Oct. 6, 1903 | 294 | Steam plant..... | I. & G. N. Ry. Co..... | 84 |
| | 295 | Agriculture..... | Pacific Express Co..... | 25 |
| | 296 | Agriculture..... | W. C. Boyett..... | 10 60 |
| | 297 | F. institute..... | E. J. Kyle..... | 7 45 |
| | 298 | Contingent..... | W. F. Express Co..... | 1 55 |
| | 299 | Contingent..... | W. U. Telegraph Co..... | 75 |
| | 300 | Civil engineering..... | D. W. Spence..... | 1 13 |
| | 344 | Horticulture..... | Ben S. Read..... | 1 25 |
| | 345 | Horticulture..... | Bryan Eagle..... | 4 50 |
| | 346 | Horticulture..... | Haswell Bros..... | 16 67 |
| | 347 | Veterinary..... | Haswell Bros..... | 4 40 |
| | 348 | Veterinary..... | Wilson & Edge..... | 2 00 |
| | 349 | Veterinary..... | Bryan Telephone Co..... | 4 00 |
| | 350 | Mechan. engineering..... | Am. Blacksmith Co..... | 1 00 |
| | 351 | Mechan. engineering..... | J. J. Pastoriza Co..... | 86 70 |
| | 352 | Drawing..... | Garth, Howell & Webb..... | 6 60 |
| | 353 | Drawing..... | E. Pietzgen..... | 13 45 |
| | 354 | Drawing..... | Garth, Howell & Webb..... | 8 22 |
| | 355 | Steam plant..... | Burt Norwood..... | 6 61 |
| | 356 | Steam plant..... | Hartwell Iron Works..... | 6 50 |
| Oct. 6, 1903 | 357 | Steam plant..... | W. P. Oil Co..... | 30 48 |
| | 358 | Steam plant..... | F. W. Heitmann Co..... | 7 80 |
| | 359 | Steam plant..... | Garth, Howell & Webb..... | 19 13 |
| | 360 | Civil engineering..... | H. Waddell..... | 29 87 |
| | 361 | Farmers institute..... | F. W. Mally..... | 14 05 |
| | 362 | Contingent..... | Nacogdoches Plaindealer..... | 7 15 |
| | 363 | Contingent..... | Georgetown Commercial..... | 7 15 |
| | 364 | Contingent..... | Sherman Democrat..... | 7 15 |
| | 365 | Contingent..... | Montague Democrat..... | 7 15 |
| | 366 | Contingent..... | Independent Courier..... | 7 15 |
| | 367 | Contingent..... | Collie Bros..... | 7 65 |
| | 368 | Contingent..... | The Valley Courier..... | 7 15 |
| | 369 | Contingent..... | The Beeville Bee..... | 7 15 |
| | 370 | Contingent..... | Polk County News..... | 7 15 |
| | 371 | Contingent..... | Henrietta News..... | 7 15 |
| | 372 | Contingent..... | Pittsburg Gazette..... | 7 15 |
| | 373 | Contingent..... | Gainesville Register..... | 7 15 |
| | 374 | Contingent..... | Mason County News..... | 7 15 |
| | 375 | Contingent..... | Brownsville Herald..... | 7 15 |
| | 376 | Contingent..... | Fairfield Recorder..... | 7 15 |
| Oct. 9, 1903 | 377 | Contingent..... | Clarke & Courts..... | 2 40 |
| | 378 | Contingent..... | J. J. Pastoriza..... | 18 00 |
| | 379 | Contingent..... | J. Haswell..... | 7 00 |
| | 380 | Contingent..... | Remington Typewriter Co..... | 75 |
| | 381 | Contingent..... | Levy Bros..... | 2 00 |
| | 382 | Contingent..... | W. U. Telegraph Co..... | 3 90 |
| | 383 | Contingent..... | W. U. Telegraph Co..... | 2 65 |
| | 384 | Contingent..... | S. W. Tel. & Tel. Co..... | 3 90 |
| | 385 | Botany..... | Clarke & Fountain..... | 2 00 |
| | 386 | Botany..... | J. J. Pastoriza Co..... | 3 75 |
| | 387 | Botany..... | Bryan Eagle..... | 6 90 |
| | 435 | Contingent..... | McDaniel Printing Co..... | 7 15 |
| | 436 | Contingent..... | Palestine Advocate..... | 7 15 |
| | 437 | Contingent..... | Bonham News..... | 7 15 |
| | 438 | Contingent..... | Gonzales Inquirer..... | 7 15 |
| | 439 | Contingent..... | Texas Coaster..... | 7 15 |
| | 440 | Contingent..... | Panola Watchman..... | 7 15 |
| | 441 | Contingent..... | Fredericksburg Wachenblatt..... | 7 15 |
| | 442 | Contingent..... | J. W. Narthony..... | 7 15 |
| | 443 | Contingent..... | Wills Point Chronicle..... | 7 15 |
| | 444 | Contingent..... | Childress Index..... | 7 15 |
| | 445 | Contingent..... | Texas Farmer..... | 7 15 |
| | 446 | Contingent..... | The Christian Advocate..... | 7 15 |
| | 447 | Contingent..... | Texas Stockman's Journal..... | 7 15 |
| | 448 | Contingent..... | Cherokee County Banner..... | 7 15 |
| | 449 | Contingent..... | Rust & Joiner..... | 7 15 |
| | 450 | Contingent..... | Feld & Flur..... | 2 70 |
| | 451 | Contingent..... | Texas Stockman & Farmer..... | 7 20 |
| | 452 | Contingent..... | Bryan Eagle..... | 49 15 |
| | 453 | Phys. and elect..... | Bryan Eagle..... | 6 50 |
| | 454 | Contingent..... | Bryan Eagle..... | 1 90 |
| | 455 | Military..... | J. V. Love..... | 1 10 |
| | 456 | Military..... | Bryan Eagle..... | 5 75 |
| | 457 | Military..... | R. Wurlitzer & Co..... | 21 60 |
| | 458 | Botanical..... | University of Chicago Press..... | 4 00 |

MAINTENANCE AND SUPPORT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-----------------------|-------------------------------|---------|
| Oct. 10, 1903 | 459 | Botanical | Levy Bros..... | 13 50 |
| | 460 | Steam plant..... | Howell Bros..... | 4 70 |
| | 461 | Steam plant..... | J. Allen Meyers..... | 6 85 |
| | 474 | Entomology expense.. | I. & G. N. Ry. Co..... | 5 39 |
| | 475 | Entomology expense.. | I. & G. N. Ry. Co..... | 5 24 |
| | 476 | Entomology expense.. | W. C. Boyett, P. M..... | 21 20 |
| | 477 | Entomology expense.. | W. F. Express Co..... | 4 45 |
| | 488 | Care of grounds..... | A. Thompson..... | 55 00 |
| | 500 | Campus..... | J. Riggs et al..... | 60 00 |
| | 501 | Janitors | C. Atkins et al..... | 96 00 |
| | 502 | Steam plant..... | C. E. Brunson..... | 1 50 |
| | 503 | Botanical..... | W. C. Boyett, P. M..... | 2 00 |
| | 504 | Military..... | W. U. Telegraph Co..... | 2 37 |
| | 505 | Military..... | W. F. Express Co..... | 2 10 |
| | 506 | Contingent..... | W. C. Boyett, P. M..... | 12 50 |
| | 507 | Contingent..... | W. C. Boyett, P. M..... | 26 20 |
| | 508 | Contingent..... | W. F. Express Co..... | 25 |
| | 509 | Veterinary..... | T. R. Carson..... | 35 00 |
| | 510 | Veterinary..... | S. E. Gideon..... | 8 00 |
| | 511 | Horticulture..... | W. C. Boyett, P. M..... | 10 60 |
| | 412 | Horticulture..... | A. E. Withers..... | 3 85 |
| | 513 | Mechan. engineering.. | Wm. Gorgycki..... | 8 00 |
| | 514 | Mechan. engineering.. | Tom Rhone..... | 2 00 |
| | 515 | Mechan. engineering.. | W. U. Telegraph Co..... | 75 |
| | 516 | Mechan. engineering.. | J. A. Myers, P. M..... | 21 20 |
| | 517 | Mechan. engineering.. | W. F. Express Co..... | 1 75 |
| Oct. 19, 1903 | 518 | Agriculture..... | R. L. Spiller..... | 11 65 |
| | 536 | Entomology expense.. | Bryan Eagle..... | 15 35 |
| | 537 | Entomology expense.. | Brazos Pilot..... | 7 90 |
| | 565 | Phys. and elec. engr. | J. V. Love..... | 1 50 |
| | 566 | Military..... | M. C. Lilly & Co..... | 1 75 |
| | 567 | Steam plant..... | The Alden Spears Sons Co..... | 3 15 |
| | 568 | Steam plant..... | F. W. Heitmann & Co..... | 2 61 |
| | 569 | Steam plant..... | Troy Laundry Mach. Co..... | 55 50 |
| | 570 | Mechan. engineering.. | Hull Publishing Co..... | 2 00 |
| | 571 | Mechan. engineering.. | J. Allen Meyers..... | 10 75 |
| | 572 | Contingent..... | The Dublin Progress..... | 7 15 |
| | 573 | Contingent..... | The Pecos Valley News..... | 7 15 |
| | 574 | Contingent..... | The Wichita Herald..... | 3 30 |
| | 575 | Contingent..... | Houston Printing Co..... | 20 16 |
| | 576 | Contingent..... | Madisonville Meteor..... | 7 15 |
| | 577 | Contingent..... | New Braunfels Zeitung..... | 7 15 |
| | 578 | Contingent..... | Express Publishing Co..... | 46 15 |
| | 579 | Contingent..... | Von Boeckmann-Jones Co..... | 1 61 |
| | 580 | Contingent..... | Bryan Eagle..... | 4 00 |
| | 581 | Contingent..... | Tyler Haswell..... | 2 35 |
| Oct. 23, 1903 | 590 | Board expense..... | C. E. Griffin..... | 100 00 |
| Oct. 30, 1903 | 591 | Military..... | Bryan Eagle..... | 13 50 |
| | 592 | Military..... | H. Pitson Mfg. Co..... | 3 00 |
| | 593 | Contingent fund..... | J. V. Love..... | 60 |
| | 594 | Contingent fund..... | Behrens Drug Co..... | 4 00 |
| | 595 | Contingent fund..... | Clarke & Courts..... | 13 75 |
| | 596 | Contingent fund..... | Abilene Reporter..... | 7 15 |
| | 597 | Contingent fund..... | McKinney Gazette..... | 7 15 |
| | 598 | Contingent fund..... | Fort Worth Telegram..... | 13 65 |
| | 599 | Contingent fund..... | Garth, Howell & Webb..... | 1 50 |
| | 600 | Horticulture..... | Texas Seed & Floral Co..... | 6 00 |
| | 601 | Mechan. engineering.. | E. Pietzgen Co..... | 2 72 |
| | 602 | Mechan. engineering.. | Garth, Howell & Webb..... | 4 66 |
| | 603 | Mechan. engineering.. | F. W. Heitmann & Co..... | 54 00 |
| | 615 | Entomology expense.. | Clarke & Courts..... | 3 20 |
| | 616 | Entomology expense.. | J. A. Myers..... | 9 60 |
| Oct. 30, 1903 | 631 | Salary | D. F. Houston..... | 41 66 |
| | 632 | Salary | S. E. Gideon..... | 155 55 |
| | 633 | Salary | T. C. Bittle..... | 200 00 |
| | 634 | Salary | J. E. Platt..... | 100 00 |
| | 635 | Salary | G. C. Embry..... | 100 00 |
| | 636 | Salary | A. Mitchell..... | 83 33 |
| | 637 | Salary | W. W. Barington..... | 80 00 |
| | 638 | Salary | C. S. Potts..... | 133 33 |
| | 639 | Salary | F. S. Johnston..... | 104 16 |
| | 640 | Salary | J. H. Reitz..... | 133 33 |
| | 641 | Salary | G. S. Fraps..... | 45 55 |
| | 642 | Salary | W. C. Martin..... | 133 33 |
| | 643 | Salary | O. M. Ball..... | 222 22 |

MAINTENANCE AND SUPPORT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|---------------------------|----------------------------------|---------|
| | 644 | Salary | N. H. Brown..... | 277 77 |
| | 645 | Salary | D. W. Spence..... | 200 00 |
| | 646 | Salary | Ira Cain | 75 00 |
| | 647 | Salary | E. P. Sanderson..... | 145 83 |
| | 648 | Salary | A. F. Conradi..... | 82 33 |
| | 649 | Salary | L. Scholl..... | 66 66 |
| | 650 | Salary | S. Harlan..... | 125 00 |
| | 651 | Salary | Z. R. McDonald..... | 50 00 |
| | 652 | Salary | M. R. Kelley..... | 60 00 |
| | 653 | Salary | J. Clough..... | 75 00 |
| | 654 | Salary | C. P. Fountain..... | 155 55 |
| | 655 | Salary | J. W. Carson..... | 125 00 |
| | 656 | Salary | M. Francis..... | 111 11 |
| | 657 | Salary | F. Post..... | 40 00 |
| | 658 | Salary | R. L. Bennett..... | 166 66 |
| Nov. 5, 1903 | 701 | Bugler..... | S. F. McConnico..... | 45 00 |
| | 719 | Steam plant..... | Waco Electrical Supply Co..... | 30 38 |
| | 720 | Steam plant..... | Deane Steam Pump Co..... | 13 50 |
| | 721 | Steam plant..... | Garth, Howell & Webb..... | 8 40 |
| | 722 | Farmers institute..... | R. L. Bennett..... | 14 20 |
| | 723 | Farmers institute..... | Bryan Eagle..... | 36 15 |
| | 724 | Farmers institute..... | R. L. Bennett..... | 14 20 |
| | 725 | Campus..... | Tyler Haswell..... | 6 55 |
| | 726 | Drawing..... | Tyler Haswell..... | 1 75 |
| | 727 | Drawing..... | Eugene Dietzgen Co..... | 2 88 |
| | 728 | Horticulture..... | Bryan Eagle..... | 16 00 |
| | 729 | Mechan. engineering..... | Manning, Maxwell & Moore..... | 75 |
| | 730 | Mechan. engineering..... | Beaumont Iron Works..... | 44 96 |
| | 731 | Civil engineering..... | Bryan Eagle..... | 9 00 |
| | 733 | Entomology expense..... | R. M. Moll..... | 2 00 |
| | 734 | Entomology expense..... | Chemical Department A. M. C..... | 1 50 |
| | 735 | Entomology expense..... | Burt Norwood..... | 6 45 |
| | 765 | Bugler and Band L..... | S. F. McConnico..... | 3 33 |
| | 766 | Bugler and Band L..... | Geo. F. Tyrrell..... | 5 00 |
| | 767 | Veterinary..... | A. G. Buchanan..... | 10 00 |
| | 768 | Veterinary..... | T. R. Carson..... | 35 00 |
| | 769 | Steam plant..... | Geo. Grupe et al..... | 216 65 |
| | 770 | Steam plant..... | H. & T. C. Ry. Co..... | 8 64 |
| | 771 | Steam plant..... | W. F. Express Co..... | 1 40 |
| | 772 | Steam plant..... | H. & T. C. Ry. Co..... | 51 |
| | 773 | Steam plant..... | W. F. Express Co..... | 4 40 |
| | 774 | Janitors..... | W. L. Phipp..... | 2 13 |
| | 775 | Janitors..... | Jim Ramsey..... | 15 00 |
| | 776 | Janitors..... | C. Atkins et al..... | 96 00 |
| | 777 | Phys. and elec. engr..... | I. & G. N. Ry. Co..... | 1 78 |
| | 778 | Phys. and elec. engr..... | T. Haswell..... | 1 00 |
| Nov. 5, 1903 | 779 | Phys. and elec. engr..... | W. F. Express Co..... | 35 |
| | 780 | Library..... | Ira Cain..... | 15 00 |
| | 781 | Mechan. engineering..... | Pacific Express Co..... | 2 90 |
| | 782 | Mechan. engineering..... | W. F. Express Co..... | 35 |
| | 783 | Mechan. engineering..... | W. F. Express Co..... | 4 71 |
| | 784 | Mechan. engineering..... | I. & G. N. Ry. Co..... | 1 46 |
| | 785 | Contingent..... | Pacific Express Co..... | 75 |
| | 786 | Contingent..... | I. & G. N. Ry. Co..... | 39 |
| | 787 | Campus..... | J. Riggs et al..... | 60 00 |
| | 788 | Horticulture..... | Joe Lindsey..... | 35 00 |
| | 789 | Horticulture..... | H. & T. C. Ry. Co..... | 7 35 |
| | 790 | Horticulture..... | E. J. Kyle..... | 8 35 |
| | 791 | Farmers institute..... | E. C. Green..... | 5 60 |
| | 792 | Farmers institute..... | W. C. Boyett..... | 5 00 |
| | 793 | Salary | J. W. Bittle..... | 24 00 |
| | 848 | Entomology expense..... | E. D. Sanderson..... | 12 52 |
| | 849 | Entomology expense..... | E. D. Sanderson..... | 3 49 |
| | 850 | Entomology expense..... | E. D. Sanderson..... | 17 77 |
| Nov. 20, 1903 | 851 | Entomology expense..... | Coleman & Buckman..... | 17 30 |
| | 852 | Entomology expense..... | Coleman & Canton..... | 16 45 |
| | 887 | Wood..... | J. H. Suber..... | 470 83 |
| | 905 | Military..... | Tyler Haswell..... | 18 35 |
| | 906 | Military..... | Geo. F. Tyrrell..... | 4 25 |
| | 907 | Military..... | M. C. Lilly & Co..... | 1 68 |
| | 908 | Military..... | Jacob Reed & Sons..... | 60 00 |
| | 909 | Horticulture..... | Reichardt & Schutte..... | 27 00 |
| | 910 | Horticulture..... | M. H. James..... | 80 |
| | 911 | Horticulture..... | Ben S. Rea..... | 75 |
| | 912 | Horticulture..... | G. H. Pittman..... | 4 15 |

MAINTENANCE AND SUPPORT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|---------------------------|----------------------------|---------|
| Nov. 20, 1903 | 913 | Horticulture..... | J. T. Hanwon..... | 2 00 |
| | 914 | Horticulture..... | Library Bureau..... | 56 13 |
| | 915 | Horticulture..... | B. F. Avery & Sons..... | 15 70 |
| | 916 | Horticulture..... | B. F. Avery & Sons..... | 13 69 |
| | 917 | Botany..... | W. C. Boyett..... | 5 00 |
| | 918 | Phys. and elec. engr..... | American X-Ray Co..... | 3 00 |
| | 919 | Contingent..... | John Church Co..... | 35 |
| | 920 | Contingent..... | Slayden & Kirksey..... | 27 00 |
| | 921 | Contingent..... | S. W. Tel. & Tel Co..... | 3 80 |
| | 922 | Veterinary..... | Cole Bros..... | 3 15 |
| | 923 | Veterinary..... | Wilson & Jenkins..... | 16 30 |
| | 924 | Veterinary..... | Garth, Howell & Webb..... | 4 32 |
| | 925 | Veterinary..... | Tyler Haswell..... | 2 70 |
| | 968 | Farmers institute..... | E. J. Kyle..... | 2 00 |
| | 969 | Horticulture..... | E. J. Kyle..... | 1 45 |
| | 970 | Horticulture..... | L. Phipps et al..... | 30 35 |
| | 971 | Phys. elect'l engr..... | F. A. Fish..... | 5 00 |
| | 972 | Phys. elect'l engr..... | N. H. Brown..... | 7 20 |
| | 973 | Steam plant..... | O. F. Craver..... | 32 50 |
| | 974 | Steam plant..... | Geo. Grupe et al..... | 339 95 |
| | 1009 | Farmers institute..... | R. L. Bennett..... | 30 45 |
| Nov. 25, 1903 | 1013 | Farmers institute..... | Tom Frazier..... | 8 90 |
| Nov. 30, 1903 | 1044 | Salary..... | D. F. Houston..... | 41 66 |
| | 1045 | Salary..... | S. E. Gideon..... | 155 55 |
| | 1046 | Salary..... | T. C. Bittle..... | 200 00 |
| | 1047 | Salary..... | J. E. Platt..... | 100 00 |
| | 1048 | Salary..... | G. C. Embry..... | 100 00 |
| | 1049 | Salary..... | A. Mitchell..... | 83 33 |
| | 1050 | Salary..... | W. W. Barington..... | 80 00 |
| | 1051 | Salary..... | C. S. Potts..... | 133 33 |
| | 1052 | Salary..... | F. S. Johnston..... | 104 16 |
| Nov. 30, 1903 | 1053 | Salary..... | J. H. Reitz..... | 133 33 |
| | 1054 | Salary..... | G. S. Fraps..... | 43 33 |
| | 1055 | Salary..... | W. C. Martin..... | 133 33 |
| | 1056 | Salary..... | O. M. Ball..... | 222 22 |
| | 1057 | Salary..... | N. H. Brown..... | 277 77 |
| | 1058 | Salary..... | D. W. Spence..... | 200 00 |
| | 1059 | Salary..... | Ira Cain..... | 75 00 |
| | 1060 | Salary..... | E. D. Sanderson..... | 145 33 |
| | 1061 | Salary..... | A. F. Conradi..... | 83 33 |
| | 1062 | Salary..... | L. Scholl..... | 66 66 |
| | 1063 | Salary..... | S. Harlan..... | 125 00 |
| | 1064 | Salary..... | J. R. McDonald..... | 50 00 |
| | 1065 | Salary..... | A. K. Agon..... | 60 00 |
| | 1066 | Salary..... | J. R. Clough..... | 75 00 |
| | 1067 | Salary..... | C. P. Fountain..... | 155 55 |
| | 1068 | Salary..... | J. W. Carson..... | 125 00 |
| | 1069 | Salary..... | M. Francis..... | 111 11 |
| | 1070 | Salary..... | F. Post..... | 40 00 |
| | 1071 | Salary..... | R. L. Bennett..... | 166 66 |
| Dec. 1, 1903 | 1084 | Board expenses..... | L. D. Amsler..... | 35 80 |
| | 1085 | Board expenses..... | W. J. Clay..... | 10 50 |
| | 1086 | Entomology expense..... | Tyler Haswell..... | 1 40 |
| | 1087 | Entomology expense..... | J. A. Myers..... | 40 41 |
| | 1088 | Entomology expense..... | Office Supply Co..... | 1 75 |
| | 1089 | Entomology expense..... | J. J. Pastoriza Co..... | 2 75 |
| | 1090 | Entomology expense..... | Fred Macey Co..... | 24 68 |
| | 1091 | Entomology expense..... | Dorsey Printing Co..... | 3 50 |
| | 1104 | Contingent..... | Jefferson Jimplecute..... | 7 15 |
| | 1105 | Contingent..... | Industrial Press..... | 5 00 |
| | 1106 | Contingent..... | Uvalde Leader-News..... | 7 15 |
| Dec. 1, 1903 | 1107 | Contingent..... | Bellville Wachenblatt..... | 5 37 |
| | 1108 | Contingent..... | New Braunfels Herald..... | 3 10 |
| | 1109 | Contingent..... | Taylor Texan..... | 7 15 |
| Dec. 5, 1903 | 1110 | Contingent..... | Galveston News..... | 78 00 |
| | 1111 | Contingent..... | Southern Printing Co..... | 7 15 |
| | 1112 | Contingent..... | Bryan Eagle..... | 6 00 |
| | 1113 | Drawing..... | F. Weber & Co..... | 5 10 |
| | 1114 | Drawing..... | J. A. Myers..... | 1 75 |
| | 1115 | Drawing..... | Wagner & Brandon..... | 1 23 |
| | 1116 | Civil engineering..... | Montgomery, Ward & Co..... | 49 50 |
| | 1117 | Civil engineering..... | Garth, Howell & Webb..... | 7 44 |
| | 1118 | Military..... | R. Wurlitzer & Co..... | 8 32 |
| | 1119 | Library books..... | H. Sargent..... | 2 00 |
| | 1120 | Mech. engineering..... | J. Allen Myers..... | 32 25 |

MAINTENANCE AND SUPPORT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|------------------------|-------------------------------|---------|
| | 1121 | Mech. engineering | Armstrong Bros. Tool Co..... | 6 33 |
| | 1122 | Mech. engineering | Walter Tips..... | 2 00 |
| | 1123 | Mech. engineering | W. P. Oil Co..... | 5 75 |
| | 1124 | Botanical equipment.. | Bausch & Lomb Optical Co..... | 27 91 |
| | 1125 | Botanical equipment.. | Clarke & Courts..... | 7 45 |
| | 1126 | Botanical equipment.. | Clarke & Courts..... | 2 25 |
| | 1127 | Botanical equipment.. | Lemcks & Buchner..... | 6 00 |
| | 1128 | Botanical equipment.. | Lemcks & Buchner..... | 5 64 |
| | 1129 | Botanical equipment.. | Cambridge Botanical Supply Co | 5 65 |
| | 1130 | Botanical equipment.. | J. Allen Myers..... | 2 65 |
| | 1131 | Steam plant | Texas Paper Co..... | 38 63 |
| | 1132 | Veterinary | Chemical Dept. A. & M. C..... | 9 00 |
| | 1184 | Salary | Geo. F. Terrell..... | 75 00 |
| | 1219 | Entomology expense.. | L. Scholl..... | 1 25 |
| | 1220 | Entomology expense.. | E. D. Sanderson..... | 10 89 |
| | 1243 | Salary | J. W. Bethel..... | 60 00 |
| | 1244 | Janitors | C. Atkins et al..... | 96 00 |
| | 1245 | Campus | J. Riggs et al..... | 60 00 |
| | 1246 | Horticulture | Joe Lindsay..... | 35 00 |
| | 1247 | Botanical equipment.. | T. Schmiedekind..... | 2 00 |
| | 1248 | Contingent | W. U. Telegraph Co..... | 90 |
| | 1249 | Salary of watchman.. | Burt Hull et al..... | 36 00 |
| | 1250 | Salary of watchman.. | Burt Hull et al..... | 40 00 |
| | 1251 | Farmers Institute | E. D. Sanderson..... | 15 00 |
| | 1252 | Farmers Institute | R. L. Bennett..... | 29 15 |
| | 1253 | Farmers Institute | E. C. Green..... | 13 20 |
| | 1254 | Farmers Institute | J. W. Carson..... | 16 65 |
| | 1255 | Veterinary | J. W. Carson..... | 35 00 |
| | 1256 | Mech. engineering | William Garzyck..... | 30 00 |
| | 1257 | Mech. engineering | W. C. Boyett, P. M..... | 5 00 |
| Dec. 10, 1903 | 1266 | Military | M. P. Exline Co..... | 11 50 |
| | 1267 | Military | J. A. Myers..... | 6 85 |
| | 1268 | Military | T. Haswell..... | 20 |
| | 1269 | Military | John Church Co..... | 17 |
| | 1270 | Agricultural | J. A. Myers..... | 6 90 |
| | 1271 | Veterinary | Bryan Eagle..... | 4 50 |
| | 1272 | Veterinary | J. A. Myers..... | 6 15 |
| | 1273 | Veterinary | W. R. Jenkins..... | 3 00 |
| | 1274 | Veterinary | Bausch & Lamb Optical Co..... | 136 44 |
| | 1275 | Contingent | Texarkana Courier..... | 7 15 |
| | 1276 | Contingent | Champion Printing Co..... | 7 15 |
| | 1277 | Contingent | H. Waddell..... | 58 00 |
| | 1278 | Contingent | T. Haswell..... | 9 25 |
| | 1279 | Contingent | Houston Chronicle..... | 65 |
| | 1280 | Contingent | Levy Bros..... | 20 30 |
| | 1281 | Contingent | Fishburn Illustrating Co..... | 28 75 |
| | 1282 | Contingent | J. A. Myers..... | 33 05 |
| | 1283 | Contingent | Comanche Chief..... | 7 15 |
| | 1284 | Contingent | W. U. Telegraph Co..... | 2 10 |
| | 1285 | Contingent | S. W. Tel. & Tel. Co..... | 1 85 |
| | 1286 | Horticulture | Anthony & Scoville Co..... | 50 00 |
| | 1287 | Horticulture | Texas Seed and Floral Co..... | 45 |
| | 1288 | Horticulture | M. H. James..... | 85 |
| | 1289 | Steam plant | Hopper Mfg. Co..... | 4 00 |
| | 1290 | Steam plant | L. C. Carson Co..... | 28 42 |
| | 1291 | Steam plant | Wagner & Brandon..... | 4 68 |
| | 1292 | Steam plant | M. H. James..... | 25 |
| | 1293 | Mech. engineering | Montgomery, Ward & Co..... | 2 35 |
| | 1294 | Phys. and elec. engin. | H. Waddell..... | 13 95 |
| | 1295 | Phys. and elec. engin. | J. V. Love..... | 1 50 |
| | 1296 | Phys. and elec. engin. | Union Carbide Co..... | 4 00 |
| | 1395 | Farmers Institute | W. C. Boyett, P. M..... | 5 00 |
| | 1396 | Farmers Institute | W. U. Telegraph Co..... | 1 22 |
| | 1397 | Military | W. F. Express Co..... | 50 |
| | 1398 | Contingent | W. U. Telegraph Co..... | 25 |
| | 1399 | Contingent | W. U. Telegraph Co..... | 81 |
| | 1400 | Contingent | W. F. Express Co..... | 55 |
| | 1401 | Contingent | W. F. Express Co..... | 65 |
| | 1402 | Contingent | W. F. Express Co..... | 25 |
| | 1403 | Contingent | H. & T. C. Ry. Co..... | 1 74 |
| | 1404 | Mech. engineering | W. U. Telegraph Co..... | 2 38 |
| | 1405 | Mech. engineering | W. F. Express Co..... | 2 40 |
| | 1406 | Mech. engineering | W. F. Express Co..... | 1 40 |
| | 1407 | Mech. engineering | W. F. Express Co..... | 35 |
| | 1408 | Mech. engineering | H. & T. C. Ry. Co..... | 56 |

MAINTENANCE AND SUPPORT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-------------------------|----------------------------------|---------|
| | 1409 | Steam plant | I. & G. N. Ry. Co..... | 48 |
| | 1410 | Steam plant | W. F. Express Co..... | 1 85 |
| | 1411 | Steam plant | Geo. Grupe et al..... | 299 55 |
| | 1412 | Botanical equipment.. | W. C. Boyett, P. M..... | 3 00 |
| | 1413 | Botanical equipment.. | I. & G. N. Ry. Co..... | 2 22 |
| | 1414 | Botanical equipment.. | I. & G. N. Ry. Co..... | 5 45 |
| | 1415 | Horticulture | Farm Department..... | 52 00 |
| | 1416 | Veterinary | A. R. Carson..... | 5 00 |
| | 1417 | Steam plant | J. H. Suber (wood)..... | 600 30 |
| Dec. 14, 1903 | 1420 | Salary | F. R. Marshall..... | 30 00 |
| | 1421 | Salary | F. R. Marshall..... | 150 00 |
| Dec. 17, 1903 | 1470 | Veterinary | Haussmann & Dunn Co..... | 35 49 |
| | 1471 | Veterinary | H. Waddell..... | 8 40 |
| | 1472 | Veterinary | Bering-Cortes Hardware Co..... | 2 50 |
| | 1473 | Veterinary | Geo. A. Adams..... | 5 00 |
| | 1474 | Veterinary | Clarke & Courts..... | 8 85 |
| | 1475 | Veterinary | P. Blackstone Sons & Co..... | 1 47 |
| | 1476 | Agriculture | Treasury account..... | 36 74 |
| | 1477 | Agriculture | Treasury account..... | 21 60 |
| | 1478 | Agriculture | Treasury account..... | 9 05 |
| | 1479 | Horticulture | Howell Bros..... | 1 70 |
| | 1480 | Steam plant | F. W. Heitmann Co..... | 24 25 |
| | 1481 | Steam plant | Geo. M. Caldwell..... | 2 50 |
| | 1482 | Library | S. D. McLean & Co..... | 5 00 |
| | 1483 | Contingent | Bryan Eagle..... | 43 50 |
| | 1484 | Contingent | W. C. Boyett, P. M..... | 248 11 |
| | 1485 | Contingent | San Angelo Standard..... | 7 38 |
| | 1486 | Contingent | Kaufman Sun..... | 7 15 |
| | 1487 | Contingent | Champion Printing Co..... | 7 15 |
| | 1488 | Contingent | S. W. Tel. & Tel. Co..... | 50 |
| | 1489 | Contingent | Brenham Banner..... | 7 15 |
| | 1490 | Contingent | Slayden-Kirksey Woolen Mills.. | 27 00 |
| | 1491 | Phys. and elec. engin. | T. Haswell..... | 75 |
| | 1492 | Phys. and elec. engin. | J. A. Myers..... | 1 75 |
| Dec. 19, 1903 | 1548 | Phys. and elec. engin. | I. & G. N. Ry. Co..... | 4 07 |
| | 1549 | Agriculture | W. C. Boyett, P. M..... | 5 00 |
| | 1550 | Agriculture | W. C. Boyett, P. M..... | 6 00 |
| | 1551 | Agriculture | W. C. Boyett, P. M..... | 2 00 |
| | 1552 | Agriculture | H. & T. C. Ry. Co..... | 17 50 |
| | 1553 | Agriculture | H. & T. C. Ry. Co..... | 60 |
| | 1554 | Agriculture | I. & G. N. Ry. Co..... | 8 32 |
| | 1555 | Agriculture | A. E. Withers..... | 10 00 |
| | 1556 | Janitors | Jim Ramsey..... | 15 00 |
| | 1557 | Horticulture | W. F. Express Co..... | 2 75 |
| | 1558 | Mech. engineering | W. F. Express Co..... | 50 |
| | 1559 | Botanical equipment.. | H. & T. C. Ry. Co..... | 1 73 |
| | 1560 | Contingent | D. F. Houston..... | 78 45 |
| | 1561 | Contingent | W. F. Express Co..... | 30 |
| | 1562 | Contingent | W. F. Express Co..... | 40 |
| | 1563 | Contingent | H. & T. C. Ry. Co..... | 3 62 |
| | 1564 | Contingent | W. U. Telegraph Co..... | 65 |
| | 1565 | Contingent | I. & G. N. Ry. Co..... | 39 |
| | 1566 | Steam plant | W. F. Express Co..... | 45 |
| | 1567 | Steam plant | Pacific Express Co..... | 40 |
| | 1568 | Farmers Institute | H. H. Harrington..... | 8 30 |
| | 1569 | Board expenses | D. F. Houston..... | 20 00 |
| Dec. 22, 1903 | 1570 | Farmers Institute | Tom Frazier..... | 35 00 |
| | 1571 | Farmers Institute | T. D. Kerr..... | 9 15 |
| | 1572 | Farmers Institute | R. L. Bennett..... | 71 45 |
| Dec. 24, 1903 | 1588 | Mech. engineering | F. W. Heitmann & Co..... | 25 33 |
| | 1589 | Mech. engineering | J. V. Love..... | 55 |
| | 1590 | Agriculture | Stevenson Mach. & Repair Co..... | 86 95 |
| | 1591 | Agriculture | Von Boeckmann-Jones Co..... | 2 50 |
| | 1592 | Agriculture | Tyler Haswell..... | 3 75 |
| | 1593 | Agriculture | Carter Studio | 8 00 |
| | 1594 | Contingent | J. Allan Myers..... | 10 00 |
| | 1595 | Contingent | J. Allan Myers..... | 18 25 |
| | 1596 | Contingent | Bryan Eagle..... | 5 00 |
| | 1597 | Contingent | Clarke & Courts..... | 98 80 |
| | 1598 | Farmers Institute | S. V. Munson..... | 9 05 |
| | 1601 | Entomology expense.. | W. B. Grice..... | 8 25 |
| | 1602 | Entomology expense.. | Howell Bros..... | 1 50 |
| | 1615 | Farmers Institute | Bryan Eagle..... | 8 25 |
| | 1616 | Farmers Institute | J. W. Kirkpatrick..... | 36 35 |
| | 1617 | Farmers Institute | J. E. Babcock..... | 16 45 |

MAINTENANCE AND SUPPORT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|------------------------|-----------------------------|---------|
| Dec. 30, 1903 | 1618 | Farmers Institute | W. J. Allen | 19 60 |
| | 1620 | Farmers Institute | W. J. Duffie | 65 00 |
| | 1621 | Salary | D. F. Houston | 41 66 |
| | 1622 | Salary | S. E. Gideon | 155 55 |
| | 1623 | Salary | S. C. Bittle | 200 00 |
| | 1624 | Salary | J. E. Platt | 100 00 |
| | 1625 | Salary | G. C. Embry | 100 00 |
| | 1626 | Salary | A. Mitchell | 83 33 |
| | 1627 | Salary | W. V. Borington | 80 00 |
| | 1628 | Salary | C. S. Potts | 133 33 |
| | 1629 | Salary | F. S. Johnston | 104 16 |
| | 1630 | Salary | J. H. Reitz | 133 33 |
| | 1631 | Salary | G. S. Fraps | 41 11 |
| | 1632 | Salary | W. C. Martin | 133 33 |
| | 1633 | Salary | O. M. Ball | 222 22 |
| | 1634 | Salary | N. H. Brown | 277 77 |
| | 1635 | Salary | D. W. Spence | 200 00 |
| | 1636 | Salary | Ira Cain | 75 00 |
| | 1637 | Salary | E. D. Sanderson | 145 83 |
| | 1638 | Salary | A. F. Conradi | 83 33 |
| | 1639 | Salary | L. S. Scholl | 66 66 |
| | 1640 | Salary | Sam Harlan | 125 00 |
| | 1641 | Salary | Z. R. McDonald | 50 00 |
| | 1642 | Salary | A. K. Eagen | 60 00 |
| | 1643 | Salary | J. R. Clough | 75 00 |
| | 1644 | Salary | C. P. Fountain | 155 55 |
| | 1645 | Salary | J. W. Carson | 125 00 |
| | 1646 | Salary | M. Francis | 111 11 |
| | 1647 | Salary | F. Post | 40 00 |
| | 1648 | Salary | R. L. Bennett | 166 66 |
| | 1649 | Salary | F. R. Marshall | 150 00 |
| | 1650 | Salary | C. Kennedy | 40 00 |
| | 1684 | Salary | W. G. Drummond | 155 55 |
| | 1685 | Salary | Geo. F. Tyrrell | 75 00 |
| Jan. 2, 1904 | 1686 | Wood | J. H. Suber | 336 25 |
| Jan. 4, 1904 | 1687 | Farmers Institute | S. A. Knapp | 18 05 |
| Jan. 9, 1904 | 1688 | Farmers Institute | R. E. Smith | 14 00 |
| | 1694 | Contingent | E. B. Voorhees | 15 00 |
| | 1695 | Contingent | Waco Publishing Co | 7 15 |
| | 1696 | Contingent | S. W. Tel. & Tel. Co | 8 85 |
| | 1697 | Contingent | Brenham Drug Co | 7 50 |
| | 1698 | Contingent | Von Boeckmann-Jones Co | 60 11 |
| | 1699 | Contingent | Carl Fisher | 6 82 |
| | 1700 | Contingent | Geo. G. Lasher | 2 00 |
| | 1701 | Veterinary | W. R. Jenkins | 12 09 |
| | 1702 | Agriculture | W. P. Oil Co | 26 18 |
| | 1703 | Steam plant | Hartwell Iron Works | 8 80 |
| | 1704 | Steam plant | Austin Book & Stationery Co | 2 51 |
| | 1705 | Entomology | Connelly & Cairnes | 8 85 |
| | 1706 | Phys. and elec. engin. | H. & T. C. Ry. Co | 2 15 |
| | 1707 | Phys. and elec. engin. | Elmer & Amend | 61 32 |
| | 1708 | Drawing | Bryan Eagle | 3 65 |
| | 1754 | Farmers Institute | E. W. Kirkpatrick | 9 65 |
| | 1755 | Library | Houston Post | 8 00 |
| Jan. 12, 1904 | 1814 | Entomology expense | L. H. Scholl | 8 05 |
| | 1815 | Entomology expense | E. D. Sanderson | 34 35 |
| | 1816 | Entomology expense | Geo. Echols | 10 00 |
| | 1817 | Entomology expense | E. D. Sanderson | 8 87 |
| | 1818 | Entomology expense | I. & G. N. Ry. Co | 4 80 |
| | 1819 | Mech. engineering | Wm. Gorzyski | 30 00 |
| | 1820 | Steam plant | H. & T. C. Ry. Co | 1 17 |
| | 1821 | Steam plant | Geo. Grupe et al | 340 00 |
| | 1822 | Veterinary | Sam Ellis | 5 00 |
| | 1823 | Veterinary | C. Vick | 5 00 |
| | 1824 | Veterinary | T. S. Goodwin | 5 00 |
| | 1825 | Veterinary | W. R. Goen | 5 00 |
| | 1826 | Horticulture | Joe Lindsey | 35 00 |
| | 1827 | Horticulture | E. C. Green | 6 80 |
| | 1828 | Phys. and elec. engin. | I. & G. N. Ry. Co | 1 88 |
| | 1829 | Farmers Institute | T. Haswell | 1 75 |
| | 1830 | Farmers Institute | J. W. Carson | 4 75 |
| | 1831 | Farmers Institute | E. D. Sanderson | 4 40 |
| | 1832 | Farmers Institute | E. D. Sanderson | 23 35 |
| | 1833 | Farmers Institute | E. C. Green | 5 35 |
| | 1834 | Farmers Institute | G. S. Fraps | 4 75 |

MAINTENANCE AND SUPPORT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|----------------------------|---------------------------------|---------|
| | 1835 | Farmers Institute | W. U. Telegraph Co..... | 8 20 |
| | 1836 | Agricultural | H. & T. C. Ry. Co..... | 3 08 |
| | 1837 | Board expense | W. U. Telegraph Co..... | 50 |
| | 1838 | Contingent | W. U. Telegraph Co..... | 75 |
| | 1839 | Contingent | W. F. Express Co..... | 95 |
| | 1840 | Janitors | Jim Ramsey..... | 15 00 |
| | 1841 | Salary | S. S. Wessell..... | 72 00 |
| | 1842 | Janitors | C. Atkins et al..... | 96 00 |
| | 1843 | Salary of watchman..... | R. B. Boettcher et al..... | 40 00 |
| | 1879 | Board expenses | K. K. Legett..... | 27 00 |
| Jan. 22, 1904 | 1880 | Contingent | Carl Fisher..... | 16 59 |
| | 1881 | Contingent | Clarke & Courts..... | 9 00 |
| | 1882 | Contingent | Bryan Eagle..... | 41 00 |
| | 1883 | Contingent | Enterprise Publishing Co..... | 4 55 |
| | 1884 | Contingent | Carl Fisher..... | 11 72 |
| | 1885 | Drawing | Tyler Haswell..... | 8 00 |
| | 1886 | Drawing | Clarke & Courts..... | 13 35 |
| | 1887 | Phys. and elec. engin..... | Electrician Publishing Co..... | 3 00 |
| | 1888 | Phys. and elec. engin..... | Nearns Lamp Co..... | 45 72 |
| | 1889 | Phys. and elec. engin..... | Austin Electric & Water Co..... | 14 83 |
| | 1890 | Phys. and elec. engin..... | Garth, Howell & Webb..... | 5 70 |
| | 1891 | Veterinary | Bausch & Lomb Optical Co..... | 2 00 |
| | 1892 | Veterinary | J. L. Hearn..... | 4 00 |
| | 1893 | Veterinary | Howell Brothers..... | 7 85 |
| | 1894 | Veterinary | R. H. Seale..... | 10 00 |
| | 1895 | Veterinary | F. A. Capps..... | 6 00 |
| | 1896 | Veterinary | M. Francis..... | 10 65 |
| | 1897 | Steam plant | Hoppers Mfg. Co..... | 2 75 |
| | 1898 | Steam plant | F. W. Heitman & Co..... | 3 40 |
| | 1899 | Steam plant | Texas Paper Co..... | 32 05 |
| | 1900 | Steam plant | Von Boeckmann-Jones Co..... | 9 11 |
| | 1901 | Steam plant | Alden Spears' Sons Co..... | 19 33 |
| | 1902 | Steam plant | Von Boeckmann-Jones Co..... | 4 98 |
| | 1903 | Mech. engineering | J. Allan Myers..... | 35 68 |
| | 1904 | Mech. engineering | G. S. Parker..... | 4 08 |
| | 1905 | Mech. engineering | F. W. Heitman & Co..... | 4 05 |
| | 1906 | Mech. engineering | John Wiley & Sons..... | 87 |
| | 1907 | Botany | W. C. Boyett..... | 3 00 |
| | 1908 | Military | Bryan Eagle..... | 4 00 |
| | 1909 | Military | Tyler Haswell..... | 80 |
| Jan. 26, 1904 | 1943 | Board expenses | A. J. Brown..... | 15 50 |
| Jan. 27, 1904 | 1944 | Steam plant | J. H. Suber..... | 251 15 |
| Jan. 30, 1904 | 1946 | Salary | D. F. Houston..... | 41 66 |
| | 1947 | Salary | S. E. Gideon..... | 155 55 |
| | 1948 | Salary | T. C. Bittle..... | 200 00 |
| | 1949 | Salary | J. E. Platt..... | 100 00 |
| | 1950 | Salary | G. C. Embry..... | 100 00 |
| | 1951 | Salary | A. Mitchell..... | 83 33 |
| | 1952 | Salary | W. W. Borington..... | 80 00 |
| | 1953 | Salary | C. S. Potts..... | 133 33 |
| | 1954 | Salary | F. S. Johnston..... | 104 16 |
| | 1955 | Salary | J. H. Reitz..... | 133 33 |
| | 1956 | Salary | G. S. Fraps..... | 41 11 |
| | 1957 | Salary | W. C. Martin..... | 133 33 |
| | 1958 | Salary | O. M. Ball..... | 222 22 |
| | 1959 | Salary | N. H. Brown..... | 277 77 |
| | 1960 | Salary | D. W. Spence..... | 200 00 |
| | 1961 | Salary | Ira Cain..... | 75 00 |
| | 1962 | Salary | E. D. Sanderson..... | 145 83 |
| | 1963 | Salary | A. F. Conradi..... | 83 33 |
| | 1964 | Salary | L. Scholl..... | 66 66 |
| | 1965 | Salary | Sam Harlan..... | 125 00 |
| | 1966 | Salary | A. K. Afan..... | 60 00 |
| | 1967 | Salary | J. C. Clough..... | 75 00 |
| | 1968 | Salary | C. P. Fountain..... | 155 55 |
| | 1969 | Salary | J. W. Carson..... | 125 00 |
| | 1970 | Salary | M. Francis..... | 111 11 |
| | 1971 | Salary | F. Post..... | 40 00 |
| | 1972 | Salary | R. L. Bennett..... | 166 66 |
| | 1973 | Salary | F. R. Marshall..... | 150 00 |
| | 1974 | Salary | C. Kennedy..... | 40 00 |
| | 1975 | Salary | W. G. Drummond..... | 155 55 |
| | 1976 | Salary | Geo. F. Tyrrell..... | 75 00 |
| | 2011 | Entomology | W. C. Boyett, P. M..... | 53 60 |
| | 2012 | Entomology | Wm. Christian..... | 95 82 |

MAINTENANCE AND SUPPORT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|--------------|-------------|------------------------|---------------------------------|---------|
| Feb. 1, 1904 | 2013 | Entomology | Lambert, D. H. Printing Co..... | 2 05 |
| | 2014 | Entomology | Franklin Bros..... | 3 00 |
| | 2045 | Salary | N. Galbraith..... | 48 00 |
| | 2046 | Salary | S. S. Wessell..... | 52 00 |
| | 2047 | Campus | J. Riggs et al..... | 60 00 |
| | 2112 | Board expense | W. J. Clay..... | 6 40 |
| | 2113 | Farmers Institute ... | J. W. Carson & E. J. Kyle..... | 16 95 |
| | 2114 | Phys. and elec. engin. | F. Hoffman..... | 34 00 |
| | 2115 | Drawing | John Reitz et al..... | 1 50 |
| | 2116 | Mech. engineering ... | H. & T. C. Ry. Co..... | 70 06 |
| | 2117 | Mech. engineering ... | Wm. Gorzyski..... | 30 00 |
| | 2118 | Veterinary | James Marshall..... | 5 00 |
| | 2119 | Entomology | H. & T. C. Ry. Co..... | 11 52 |
| | 2120 | Entomology | L. Scholl..... | 3 33 |
| | 2121 | Contingent fund | J. C. Nagle..... | 7 00 |
| | 2122 | Contingent fund | Pacific Express Co..... | 30 |
| | 2123 | Contingent fund | W. F. Express Co..... | 50 |
| | 2124 | Contingent fund | W. F. Express Co..... | 25 |
| | 2125 | Contingent fund | W. F. Express Co..... | 30 |
| | 2126 | Steam plant | H. & T. C. Ry. Co..... | 63 |
| Feb. 9, 1904 | 2127 | Steam plant | H. & T. C. Ry. Co..... | 63 |
| | 2128 | Steam plant | I. & G. N. Ry Co..... | 1 57 |
| | 2129 | Steam plant | Frank Hoffman..... | 75 |
| | 2130 | Steam plant | W. F. Express Co..... | 1 35 |
| | 2225 | Entomology | Bryan Eagle..... | 13 45 |
| | 2226 | Horticulture | Bryan Eagle..... | 1 90 |
| | 2227 | Military | Tyler Haswell..... | 5 50 |
| | 2228 | Military | F. W. Heitman & Co..... | 4 17 |
| | 2229 | Contingent | Clarke & Courts..... | 13 75 |
| | 2230 | Contingent | W. U. Telegraph Co..... | 75 |
| | 2231 | Contingent | S. W. Tel. & Tel. Co..... | 2 25 |
| | 2232 | Contingent | Paris News..... | 5 00 |
| | 2233 | Botany | J. B. Colt Co..... | 9 50 |
| | 2234 | Botanical | Lemcke & Breckner..... | 3 00 |
| | 2235 | Botanical | Lemcke & Breckner..... | 6 00 |
| | 2236 | Botanical | T. Haswell..... | 5 75 |
| | 2237 | Botanical | Texas Seed & Floral Co..... | 2 42 |
| | 2238 | Botanical | E. W. D. Holway..... | 3 70 |
| | 2239 | Botanical | Clark & Fountain..... | 2 00 |
| | 2240 | Agricultural | W. P. Oil Co..... | 9 34 |
| | 2241 | Agriculture | W. J. Christian..... | 2 50 |
| | 2242 | Agriculture | Behrens Drug Co..... | 2 50 |
| | 2243 | Agriculture | Garth, Howell & Webb..... | 1 25 |
| | 2244 | Agriculture | J. Allan Myers..... | 11 78 |
| | 2245 | Agriculture | Fargo Creamery Supply House | 2 00 |
| | 2246 | Agriculture | MacMillan Co..... | 1 55 |
| | 2247 | Agriculture | Tyler Haswell..... | 40 |
| | 2248 | Agriculture | Chemical Publishing Co..... | 1 40 |
| | 2249 | Agriculture | J. J. Pastoriza Co..... | 75 |
| | 2250 | Veterinary | E. J. Jenkins..... | 7 95 |
| | 2251 | Veterinary | Cole Hardware Co..... | 1 75 |
| | 2252 | Veterinary | J. T. Hanway..... | 6 00 |
| | 2253 | Veterinary | J. A. Myers..... | 5 00 |
| | 2254 | Steam plant | Garth, Howell & Webb..... | 3 00 |
| | 2255 | Steam plant | W. P. Oil Co..... | 33 73 |
| | 2256 | Steam plant | National Ammonia Co..... | 46 80 |
| | 2257 | Steam plant | F. W. Heitman & Co..... | 6 98 |
| | 2258 | Steam plant | Duncan Hobson Electric Co..... | 8 11 |
| | 2259 | Phys. and elec. engin. | Levy Bros..... | 24 90 |
| | 2260 | Phys. and elec. engin. | Ewing, Merkle Electric Co..... | 66 50 |
| | 2261 | Phys. and elec. engin. | Scientific American..... | 4 50 |
| | 2291 | Library | I. & G. N. Ry. Co..... | 7 13 |
| | 2292 | Mech. engineering ... | I. & G. N. Ry. Co..... | 2 08 |
| | 2293 | Mech. engineering ... | Pacific Express Co..... | 1 00 |
| | 2294 | Contingent | W. U. Telegraph Co..... | 75 |
| | 2295 | Contingent | W. F. Express Co..... | 40 |
| | 2296 | Contingent | Pacific Express Co..... | 35 |
| | 2297 | Contingent | W. U. Telegraph Co..... | 1 00 |
| | 2298 | Veterinary | Prince Adams..... | 13 00 |
| | 2299 | Steam plant | Geo. Grupe et al..... | 356 20 |
| | 2300 | Agricultural | R. E. Shweatt..... | 45 00 |
| | 2301 | Entomology | E. D. Sanderson..... | 5 20 |
| | 2302 | Janitors | Jim Ramsey..... | 15 00 |
| | 2303 | Janitors | C. Atkins et al..... | 96 00 |
| | 2331 | Mech. engineering ... | Bryan Eagle..... | 4 00 |

MAINTENANCE AND SUPPORT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|----------------------------|--------------------------------|---------|
| Feb. 20, 1904 | 2332 | Mech. engineering | W. H. Morris Lumber Co..... | 334 33 |
| | 2333 | Mech. engineering | M. H. Jones..... | 60 |
| | 2334 | Steam plant | W. P. Oil Co..... | 28 05 |
| | 2335 | Steam plant | Duncan Hobson Electric Co..... | 26 51 |
| | 2336 | Steam plant | F. W. Heitman Co..... | 8 65 |
| | 2337 | Agricultural | Bryan Eagle..... | 14 20 |
| | 2338 | Contingent | Clarke & Courts..... | 58 50 |
| | 2339 | Contingent | Clarke & Courts..... | 14 75 |
| | 2340 | Contingent | J. A. Myers..... | 7 40 |
| | 2341 | Contingent | Bryan Eagle..... | 12 25 |
| | 2342 | Contingent | J. C. Nagle..... | 6 00 |
| | 2343 | Military | H. Distin..... | 6 00 |
| | 2344 | Animal husbandry | Tyler Haswell..... | 45 |
| | 2345 | Horticulture | W. C. Boyett..... | 75 |
| Feb. 27, 1904 | 2346 | Botanical | W. C. Boyett..... | 2 00 |
| | 2392 | Salary | D. F. Houston..... | 41 66 |
| | 2393 | Salary | S. E. Gideon..... | 155 55 |
| | 2394 | Salary | T. C. Bittle..... | 200 00 |
| | 2395 | Salary | J. E. Platt..... | 100 00 |
| | 2396 | Salary | G. C. Embry..... | 100 00 |
| | 2397 | Salary | A. Mitchell..... | 83 33 |
| | 2398 | Salary | W. W. Borington..... | 56 00 |
| | 2399 | Salary | V. H. Foy..... | 18 65 |
| | 2400 | Salary | C. S. Potts..... | 133 33 |
| | 2401 | Salary | F. S. Johnston..... | 104 16 |
| | 2402 | Salary | J. H. Rietz..... | 133 33 |
| | 2403 | Salary | G. S. Fraps..... | 43 33 |
| | 2404 | Salary | W. C. Martin..... | 133 33 |
| | 2405 | Salary | O. M. Ball..... | 222 22 |
| | 2406 | Salary | N. H. Brown..... | 277 77 |
| | 2407 | Salary | D. W. Spence..... | 200 00 |
| | 2408 | Salary | Ira Cain..... | 75 00 |
| | 2409 | Salary | E. D. Sanderson..... | 145 83 |
| | 2410 | Salary | A. F. Conradi..... | 83 33 |
| | 2411 | Salary | L. Scholl..... | 66 66 |
| | 2412 | Salary | Sam Harlan..... | 125 00 |
| | 2413 | Salary | A. K. Agan..... | 60 00 |
| | 2414 | Salary | J. C. Clough..... | 75 00 |
| | 2415 | Salary | C. F. Fountain..... | 155 55 |
| | 2416 | Salary | J. W. Carson..... | 125 00 |
| | 2417 | Salary | M. Francis..... | 111 11 |
| | 2418 | Salary | F. Post..... | 40 00 |
| | 2419 | Salary | R. L. Bennett..... | 166 66 |
| | 2420 | Salary | F. R. Marshall..... | 150 00 |
| | 2421 | Salary | W. G. Drummond..... | 155 55 |
| | 2422 | Salary | C. Kennedy..... | 40 00 |
| | 2423 | Salary | Geo. F. Tyrrell..... | 75 00 |
| | 2424 | Salary | F. T. Foley..... | 9 15 |
| | 2425 | Salary | F. T. Foley..... | 55 00 |
| | 2490 | Agricultural | MacMillan Co..... | 1 35 |
| | 2491 | Library | Benjamin Wyche..... | 20 00 |
| | 2492 | Library | Baker, Taylor & Co..... | 468 12 |
| | 2493 | Library | J. M. Hanson..... | 145 75 |
| | 2494 | Contingent | T. Haswell..... | 1 35 |
| | 2495 | Entomology | Connelly & Cairnes..... | 13 00 |
| | 2496 | Veterinary | Wm. R. Jenkins..... | 90 |
| | 2497 | Veterinary | S. E. Gideon..... | 8 00 |
| | 2498 | Civil engineering..... | Cambria Steel Co..... | 6 00 |
| | 2548 | Farmers Institute..... | J. W. Carson..... | 41 15 |
| | 2549 | Farmers Institute..... | J. W. Carson..... | 21 75 |
| | 2550 | Phys. and elec. engin..... | W. F. Express Co..... | 45 |
| | 2551 | Entomology | L. H. Scholl..... | 2 60 |
| | 2552 | Contingent | Pacific Express Co..... | 25 |
| | 2553 | Steam plant..... | W. C. Boyett..... | 10 60 |
| | 2554 | Steam plant..... | R. M. Dansby..... | 27 40 |
| | 2555 | Steam plant..... | Pacific Express Co..... | 1 00 |
| | 2556 | Steam plant..... | H. & T. C. Ry. Co..... | 91 |
| | 2557 | Agricultural | W. C. Boyett, P. M..... | 2 00 |
| | 2558 | Agricultural | H. & T. C. Ry. Co..... | 1 36 |
| Mch. 1, 1904 | 2563 | Steam plant..... | J. H. Suber (wood)..... | 216 90 |
| Mch. 9, 1904 | 2628 | Contingent | Bryan Eagle..... | 8 25 |
| | 2629 | Contingent | Bryan Eagle..... | 3 25 |
| | 2630 | Contingent | S. W. Tel. & Tel. Co..... | 1 75 |
| | 2631 | Contingent | Peden Iron & Steel Co..... | 16 90 |
| | 2632 | Board expenses..... | W. U. Telegraph Co..... | 25 |

MAINTENANCE AND SUPPORT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|----------------------------|----------------------------------|---------|
| | 2633 | Mech. engineering..... | J. A. Myers..... | 24 50 |
| | 2634 | Steam plant..... | Troy Laundry Machine Co..... | 80 |
| | 2635 | Steam plant..... | Tyler Haswell..... | 1 20 |
| | 2636 | Steam plant..... | American Well Works..... | 12 95 |
| | 2637 | Civil engineering..... | J. C. Nagle..... | 27 83 |
| | 2638 | Civil engineering..... | Theo. Schmedekind..... | 58 50 |
| | 2639 | Civil engineering..... | Eugene Dietzgen Co..... | 61 75 |
| | 2640 | Civil engineering..... | Garth, Howell & Webb..... | 2 04 |
| | 2641 | Farmers Institute..... | W. U. Telegraph Co..... | 35 |
| | 2642 | Agricultural..... | Bryan Eagle..... | 4 00 |
| | 2643 | Entomology..... | J. J. White..... | 3 50 |
| | 2644 | Entomology..... | J. S. Hanway..... | 16 75 |
| | 2645 | Entomology..... | Bryan Eagle..... | 3 00 |
| | 2646 | Entomology..... | Bowen Bros..... | 3 06 |
| | 2647 | Entomology..... | Bausch & Lomb Optical Co..... | 13 63 |
| | 2648 | Entomology..... | N. Y. Entomological Society..... | 4 00 |
| | 2649 | Entomology..... | Clarke & Courts..... | 8 45 |
| | 2653 | Entomology..... | E. J. Jenkins..... | 2 60 |
| | 2655 | Agricultural..... | Creamery Pkg. Mfg. Co..... | 8 55 |
| | 2656 | Drawing..... | Corbin Sash & Lock Co..... | 10 10 |
| | 2657 | Phys. and elec. engin..... | J. A. Myers..... | 56 60 |
| | 2658 | Phys. and elec. engin..... | Tyler Haswell..... | 1 25 |
| | 2659 | Phys. and elec. engin..... | General Electric Co..... | 82 42 |
| | 2660 | Phys. and elec. engin..... | W. McQueen..... | 3 50 |
| | 2661 | Drawing..... | S. E. Gideon..... | 1 00 |
| | 2662 | Mech. engineering..... | W. C. Boyett, P. M..... | 5 00 |
| | 2663 | Horticultural..... | S. E. Eubank..... | 32 60 |
| | 2664 | Steam plant..... | Geo. Grupe et al..... | 332 65 |
| | 2665 | Entomology..... | Ed D. Sanderson..... | 4 91 |
| | 2666 | Entomology..... | Ed D. Sanderson..... | 11 23 |
| | 2667 | Horticultural..... | Joe Lindsey..... | 35 00 |
| | 2668 | Agricultural..... | Pacific Express Co..... | 25 |
| | 2669 | Agricultural..... | F. R. Marshall..... | 1 02 |
| | 2670 | Agricultural..... | R. E. Thweatt..... | 45 00 |
| | 2671 | Roads and grounds..... | A. Thompson..... | 55 00 |
| | 2672 | Janitors..... | A. Munay..... | 7 15 |
| | 2673 | Permanent laborers..... | J. Riggs et al..... | 60 00 |
| | 2674 | Salary..... | N. Galbraith..... | 60 00 |
| Mch. 15, 1904 | 2706 | Farmers Institute..... | J. A. Craig..... | 28 55 |
| Mch. 17, 1904 | 2746 | Steam plant..... | F. W. Heitman & Co..... | 13 34 |
| | 2747 | Steam plant..... | Peerless Rubber Mfg. Co..... | 23 52 |
| | 2748 | Steam plant..... | J. Allen Myers..... | 1 10 |
| | 2749 | Library..... | Baker, Taylor & Co..... | 16 76 |
| | 2750 | Agricultural..... | J. M. Vance..... | 6 00 |
| | 2751 | Agricultural..... | Webb Bros..... | 1 20 |
| | 2752 | Agricultural..... | Stevenson Mach. & Repair Co..... | 15 35 |
| | 2753 | Contingent..... | J. Allen Myers..... | 231 65 |
| | 2754 | Contingent..... | Garth, Howell & Webb..... | 3 00 |
| | 2755 | Contingent..... | J. Allen Myers..... | 13 22 |
| | 2756 | Contingent..... | Bryan Eagle..... | 8 00 |
| | 2757 | Contingent..... | J. J. Pastoriza Co..... | 3 00 |
| Mch. 28, 1904 | 2808 | Animal husbandry..... | San Antonio Sewer Pipe Co..... | 65 78 |
| | 2852 | Contingent..... | Clarke & Courts..... | 11 75 |
| | 2853 | Contingent..... | Bryan Eagle..... | 2 00 |
| | 2854 | Contingent..... | Bryan Eagle..... | 5 25 |
| | 2855 | Contingent..... | Hillsboro Mirror..... | 7 15 |
| | 2856 | Contingent..... | Carter's Studio..... | 9 00 |
| | 2857 | Contingent..... | W. U. Telegraph Co..... | 55 |
| | 2858 | Contingent..... | H. & T. C. Ry. Co..... | 66 |
| | 2859 | Contingent..... | W. F. Express Co..... | 1 80 |
| | 2860 | Contingent..... | Ahrens Ott..... | 7 53 |
| | 2861 | Contingent..... | Tom Hudson..... | 5 60 |
| | 2862 | Library..... | Pacific Express Co..... | 1 24 |
| | 2863 | Library..... | Library Bureau..... | 1 00 |
| | 2864 | Horticulture..... | L. L. Morris..... | 5 00 |
| | 2865 | Horticulture..... | S. H. DeHart et al..... | 20 50 |
| | 2866 | Horticulture..... | E. J. Kyle..... | 6 82 |
| | 2867 | Horticulture..... | E. J. Kyle..... | 9 53 |
| | 2868 | Horticulture..... | E. J. Kyle..... | 6 30 |
| | 2869 | Agricultural..... | Creamery Pkg. Mfg. Co..... | 21 71 |
| | 2870 | Agricultural..... | W. P. Oil Co..... | 9 50 |
| | 2871 | Agricultural..... | J. A. Myers..... | 7 80 |
| | 2872 | Agricultural..... | F. S. Johnston..... | 2 03 |
| | 2873 | Agricultural..... | F. R. Marshall..... | 72 |
| | 2874 | Botanical..... | Lempke & Buechner..... | 2 20 |

MAINTENANCE AND SUPPORT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|------------------------|---------------------------------|---------|
| | 2875 | Farmers Institute..... | J. W. Carson..... | 30 70 |
| | 2876 | Farmers Institute..... | E. C. Green..... | 10 80 |
| | 2877 | Farmers Institute..... | F. R. Marshall..... | 17 05 |
| | 2878 | Farmers Institute..... | F. S. Johnston..... | 21 40 |
| | 2879 | Farmers Institute..... | E. J. Kyle..... | 1 50 |
| | 2880 | Steam plant..... | I. & G. N. Ry. Co..... | 1 24 |
| | 2881 | Steam plant..... | H. & T. C. Ry. Co..... | 1 57 |
| | 2882 | Entomology..... | Dan Ward..... | 1 75 |
| | 2883 | Entomology..... | A. F. Conradi..... | 7 05 |
| | 2884 | Entomology..... | E. D. Sanderson..... | 13 15 |
| | 2885 | Entomology..... | E. D. Sanderson..... | 4 41 |
| | 2886 | Entomology..... | E. D. Sanderson..... | 9 45 |
| | 2887 | Civil engineering..... | T. Hudson & L. Park..... | 16 75 |
| | 2888 | Janitors..... | C. Atkin et al..... | 104 00 |
| | 2889 | Janitors..... | Tom Roan..... | 10 00 |
| | 2890 | Salary..... | J. W. Bethel..... | 28 00 |
| | 2891 | Salary..... | N. Galbraith..... | 28 00 |
| | 2892 | Steam plant..... | American Steam Plant..... | 7 80 |
| | 2893 | Steam plant..... | Garth, Howell & Webb..... | 22 30 |
| | 2894 | Steam plant..... | J. A. Myers..... | 27 55 |
| Mch. 28, 1904 | 2895 | Steam plant..... | Crosby S. Gauge & Valve Co..... | 2 85 |
| | 2896 | Steam plant..... | W. P. Oil Co..... | 16 81 |
| | 2933 | Salary..... | D. F. Houston..... | 41 66 |
| | 2934 | Salary..... | S. E. Gideon..... | 155 55 |
| | 2935 | Salary..... | T. C. Bittle..... | 200 00 |
| | 2936 | Salary..... | J. E. Platt..... | 100 00 |
| | 2937 | Salary..... | G. C. Embry..... | 100 00 |
| | 2938 | Salary..... | A. Mitchell..... | 83 33 |
| | 2939 | Salary..... | V. H. Foy..... | 70 00 |
| | 2940 | Salary..... | C. S. Potts..... | 133 33 |
| | 2941 | Salary..... | F. S. Johnston..... | 104 16 |
| | 2942 | Salary..... | J. H. Rietz..... | 133 33 |
| | 2943 | Salary..... | G. S. Fraps..... | 43 33 |
| | 2944 | Salary..... | W. C. Martin..... | 133 33 |
| | 2945 | Salary..... | O. M. Ball..... | 222 22 |
| | 2946 | Salary..... | N. H. Brown..... | 277 77 |
| | 2947 | Salary..... | D. W. Spence..... | 200 00 |
| | 2948 | Salary..... | Ira Cain..... | 75 00 |
| | 2949 | Salary..... | E. D. Sanderson..... | 145 83 |
| | 2950 | Salary..... | A. F. Conradi..... | 83 33 |
| | 2951 | Salary..... | L. Scholl..... | 66 66 |
| | 2952 | Salary..... | Sam Harlan..... | 125 00 |
| | 2953 | Salary..... | A. K. Agan..... | 60 00 |
| | 2954 | Salary..... | J. C. Clough..... | 75 00 |
| | 2955 | Salary..... | C. P. Fountain..... | 155 55 |
| | 2956 | Salary..... | J. W. Carson..... | 125 00 |
| | 2957 | Salary..... | M. Francis..... | 111 11 |
| | 2958 | Salary..... | F. Post..... | 40 00 |
| | 2959 | Salary..... | R. L. Bennett..... | 83 33 |
| Mch. 28, 1904 | 2960 | Salary..... | F. R. Marshall..... | 150 00 |
| | 2961 | Salary..... | C. Kennedy..... | 40 00 |
| | 2962 | Salary..... | W. G. Drummond..... | 155 55 |
| | 2963 | Salary..... | G. F. Tyrrell..... | 75 00 |
| | 2964 | Salary..... | F. T. Folley..... | 55 00 |
| | 2965 | Salary..... | F. T. Folley..... | 1 85 |
| | 2969 | Steam plant..... | J. H. Suber..... | 246 05 |
| Apr. 6, 1904 | 2994 | Animal husbandry..... | J. A. Myers..... | 336 22 |
| | 2995 | Animal husbandry..... | Garth, Howell & Webb..... | 3 75 |
| | 2996 | Animal husbandry..... | I. & G. N. Ry. Co..... | 9 38 |
| | 2997 | Roads and grounds..... | A. Thompson..... | 55 00 |
| | 3023 | Steam plant..... | Howell Bros..... | 1 00 |
| | 3024 | Steam plant..... | M. H. James..... | 1 65 |
| | 3025 | Steam plant..... | Tom Hudson..... | 8 40 |
| | 3026 | Steam plant..... | J. H. Harrison..... | 4 95 |
| | 3027 | Steam plant..... | Geo. Grupe et al..... | 365 00 |
| | 3028 | Animal husbandry..... | John Ashton..... | 14 56 |
| | 3029 | Entomology..... | Wm. Wood & Co..... | 1 00 |
| | 3030 | Entomology..... | Fishburn Illustrating Co..... | 3 69 |
| | 3031 | Entomology..... | Dorsey Printing Co..... | 7 30 |
| | 3032 | Entomology..... | A. C. Lewis..... | 3 00 |
| | 3033 | Entomology..... | E. D. Sanderson..... | 21 50 |
| | 3034 | Entomology..... | E. D. Sanderson..... | 5 15 |
| | 3035 | Entomology..... | C. Buchanan..... | 6 00 |
| | 3036 | Entomology..... | Dan Ward..... | 5 00 |
| | 3037 | Agricultural..... | Garth, Howell & Webb..... | 29 51 |

MAINTENANCE AND SUPPORT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-------------------------|--------------------------------|---------|
| Apr. 6, 1904 | 3038 | Agricultural | R. E. Thweatt..... | 45 00 |
| | 3039 | Contingent fund..... | S. W. Tel. & Tel. Co..... | 6 40 |
| | 3040 | Contingent fund..... | Bryan Eagle..... | 7 25 |
| | 3041 | Contingent fund..... | Bryan Eagle..... | 8 50 |
| | 3042 | Contingent fund..... | G. H. Wagner..... | 7 50 |
| | 3043 | Contingent fund..... | W. C. Boyett..... | 20 22 |
| | 3044 | Farmers institute..... | J. W. Carson..... | 47 10 |
| | 3045 | Farmers institute..... | W. C. Boyett..... | 2 00 |
| | 3046 | Farmers institute..... | W. C. Boyett..... | 1 00 |
| | 3047 | Library | Lemke & Buechner..... | 31 78 |
| | 3048 | Library | Ira Cain..... | 9 85 |
| | 3049 | Contingent expense..... | Nelson & Harrison..... | 14 05 |
| | 3050 | Contingent expense..... | Levy Brothers..... | 9 00 |
| | 3051 | Military | W. U. Telegraph Co..... | 1 75 |
| | 3052 | Military | W. C. Boyett..... | 50 |
| | 3053 | Military | M. C. Lilly & Co..... | 2 85 |
| | 3054 | Horticultural | E. E. Risien..... | 5 00 |
| Apr. 15, 1904 | 3055 | Perm. laborers..... | Riggs et al..... | 60 00 |
| | 3056 | Salary | A. E. Withers..... | 14 00 |
| | 3057 | Janitors | A. Murray..... | 15 00 |
| | 3058 | Janitors | C. Atkins et al..... | 96 00 |
| | 3217 | Entomology | F. L. Lake Co..... | 1 50 |
| | 3218 | Entomology | Remington T. W. Co..... | 2 05 |
| | 3219 | Entomology | E. J. Jenkins..... | 4 70 |
| | 3220 | Entomology | E. D. Sanderson..... | 7 70 |
| | 3221 | Entomology | E. D. Sanderson..... | 12 81 |
| | 3222 | Entomology | L. H. Scho'l..... | 10 75 |
| Apr. 15, 1904 | 3223 | Botanical | O. M. Ball..... | 2 00 |
| | 3224 | Agricultural | P. S. Pfimmer..... | 1 50 |
| | 3225 | Agricultural | J. H. Swaltney..... | 1 60 |
| | 3226 | Agricultural | W. C. Boyett..... | 70 |
| | 3227 | Agricultural | F. L. Lake Co..... | 1 60 |
| | 3228 | Agricultural | Elmes & Amend..... | 19 20 |
| | 3229 | Agricultural | Garth, Howell & Webb..... | 2 40 |
| | 3230 | Agricultural | J. T. Duffey..... | 2 25 |
| | 3231 | Agricultural | Jacob Orth & Son..... | 2 67 |
| | 3232 | Agricultural | Howell Bros..... | 10 75 |
| | 3233 | Agricultural | W. F. Express Co..... | 2 35 |
| | 3234 | Agricultural | Pacific Express Co..... | 2 90 |
| | 3235 | Agricultural | I. & G. N. Ry. Co..... | 8 41 |
| | 3236 | Agricultural | H. & T. C. Ry. Co..... | 2 52 |
| | 3237 | Steam plant..... | Cook Well Co..... | 18 00 |
| | 3238 | Steam plant..... | I. & G. N. Ry. Co..... | 1 91 |
| | 3239 | Steam plant..... | W. F. Express Co..... | 1 00 |
| | 3240 | Steam plant..... | W. F. Express Co..... | 35 |
| Apr. 15, 1904 | 3241 | Horticultural | E. E. Risen..... | 5 00 |
| | 3242 | Horticultural | I. & G. N. Ry. Co..... | 2 55 |
| | 3243 | Horticultural | H. & T. C. Ry. Co..... | 2 50 |
| | 3244 | Horticultural | Sam Cliner et al..... | 65 00 |
| | 3245 | Military | W. F. Express Co..... | 1 00 |
| | 3246 | M. E. supplies..... | E. Dietzgen & Co..... | 1 60 |
| | 3247 | M. E. supplies..... | T. Haswell..... | 4 90 |
| | 3248 | M. E. supplies..... | Pacific Express Co..... | 90 |
| | 3249 | Farmers institute..... | Postal Telegraph Co..... | 40 |
| | 3250 | Library | T. Haswell..... | 4 90 |
| Apr. 15, 1904 | 3251 | Library | W. Wyche..... | 3 55 |
| | 3252 | Contingent fund..... | W. U. Telegraph Co..... | 2 00 |
| | 3253 | Contingent fund..... | J. A. Myers..... | 70 |
| | 3254 | Drawing | E. Dietzgen & Co..... | 1 92 |
| | 3280 | Roads and grounds..... | J. A. Myers..... | 1 10 |
| | 3281 | Roads and grounds..... | Johnson Harvester Co..... | 3 05 |
| | 3282 | Animal husbandry..... | H. & T. C. Ry. Co..... | 33 |
| | 3283 | Animal husbandry..... | Peden Iron & Steel Co..... | 11 00 |
| | 3339 | Animal husbandry..... | Garth, Howell & Webb..... | 15 20 |
| | 3340 | Animal husbandry..... | Garth, Howell & Webb..... | 2 85 |
| Apr. 28, 1904 | 3341 | Animal husbandry..... | Garth, Howell & Webb..... | 94 |
| | 3342 | Animal husbandry..... | J. A. Myers..... | 5 62 |
| | 3344 | Entomology | Sears, Roebuck & Co..... | 27 34 |
| | 3345 | Entomology | A. W. Buchonor & Co..... | 1 00 |
| | 3346 | Entomology | Texas Seed & Floral Co..... | 18 10 |
| | 3347 | Entomology | Duncan Hobson Electric Co..... | 5 21 |
| | 3348 | Entomology | J. V. Love..... | 2 70 |
| | 3349 | Entomology | Gulf Refining Co..... | 5 20 |
| | 3350 | Entomology | Clarke & Courts..... | 2 50 |
| | 3351 | Entomology | J. A. Myers..... | 23 60 |

MAINTENANCE AND SUPPORT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|----------------------------|------------------------------|---------|
| | 3352 | Entomology | Garth, Howell & Webb..... | 10 20 |
| | 3353 | Entomology | Brazos Pilot..... | 19 15 |
| | 3354 | Library | G. B. Putnam & Sons..... | 25 00 |
| | 3355 | Contingent | N. Randolph & Sons..... | 12 24 |
| | 3356 | Contingent | Remington Typewriter Co..... | 8 20 |
| | 3357 | Contingent | Bryan Eagle..... | 2 00 |
| | 3358 | Botanical | Bryan Eagle..... | 1 90 |
| | 3359 | Botanical | Bryan Eagle..... | 2 35 |
| | 3360 | Agricultural | Garth, Howell & Webb..... | 8 75 |
| | 3361 | Agricultural | J. A. Myers..... | 3 60 |
| | 3362 | Phys. and Elec. Engr. | Bryan Telephone Co..... | 4 50 |
| | 3363 | Roads and grounds..... | J. A. Myers..... | 5 50 |
| | 3364 | Farmers institute..... | Gus S. Kerr..... | 16 85 |
| | 3400 | Salary | D. F. Houston..... | 41 66 |
| Apr. 30, 1904 | 3401 | Salary | S. E. Gideon..... | 155 55 |
| | 3402 | Salary | T. C. Bittle..... | 200 00 |
| | 3403 | Salary | J. E. Platt..... | 100 00 |
| | 3404 | Salary | G. C. Embry..... | 100 00 |
| | 3405 | Salary | A. Mitchell..... | 83 33 |
| | 3406 | Salary | V. H. Foy..... | 70 00 |
| | 3407 | Salary | C. S. Potts..... | 133 33 |
| | 3408 | Salary | F. S. Johnston..... | 104 16 |
| | 3409 | Salary | J. H. Rietz..... | 133 33 |
| | 3410 | Salary | G. S. Fraps..... | 43 33 |
| | 3411 | Salary | W. C. Martin..... | 133 33 |
| | 3412 | Salary | O. M. Ball..... | 222 22 |
| | 3413 | Salary | N. H. Brown..... | 277 77 |
| | 3414 | Salary | D. W. Spence..... | 200 00 |
| | 3415 | Salary | Ira Cain..... | 75 00 |
| | 3416 | Salary | E. D. Sanderson..... | 145 83 |
| | 3417 | Salary | A. F. Conradi..... | 83 33 |
| | 3418 | Salary | L. Scholl..... | 66 66 |
| | 3419 | Salary | Sam Harlan..... | 125 00 |
| | 3420 | Salary | A. K. Agan..... | 60 00 |
| | 3421 | Salary | J. C. Clough..... | 75 00 |
| | 3422 | Salary | C. P. Fountain..... | 155 55 |
| | 3423 | Salary | J. W. Carson..... | 125 00 |
| | 3424 | Salary | M. Francis..... | 111 11 |
| | 3425 | Salary | F. Post..... | 40 00 |
| | 3426 | Salary | R. L. Bennett..... | 20 83 |
| | 3427 | Salary | R. L. Bennett..... | 41 66 |
| | 3428 | Salary | F. R. Marshall..... | 150 00 |
| | 3429 | Salary | C. Kennedy..... | 40 00 |
| | 3430 | Salary | W. G. Drummond..... | 155 55 |
| Apr. 30, 1904 | 3431 | Salary | F. T. Foy..... | 55 00 |
| | 3432 | Salary | Jerome Harrison..... | 36 00 |
| | 3433 | Salary | B. Marburger..... | 5 00 |
| | 3434 | Salary | G. T. Holton..... | 7 65 |
| | 3498 | Per. labor salary..... | J. Riggs et al..... | 60 00 |
| | 3499 | Per. labor salary..... | A. E. Withers..... | 60 00 |
| | 3500 | Per. labor salary..... | G. F. Tyrrell..... | 17 50 |
| | 3501 | Janitors | C. Atkins et al..... | 96 00 |
| | 3506 | Library | H. & T. C. Ry. Co..... | 1 24 |
| | 3507 | Library | I. & G. N. Ry. Co..... | 2 48 |
| | 3508 | Steam plant..... | Henry Williams..... | 7 00 |
| | 3509 | Steam plant..... | C. E. Hill..... | 16 50 |
| | 3510 | Steam plant..... | H. & T. C. Ry. Co..... | 52 |
| | 3511 | Agricultural | H. & T. C. Ry. Co..... | 48 |
| | 3512 | Contingent fund..... | W. U. Telegraph Co..... | 1 83 |
| | 3513 | Contingent fund..... | Pacific Express Co..... | 1 20 |
| | 3514 | Contingent fund..... | W. F. Express Co..... | 1 20 |
| | 3515 | Botanical | W. F. Express Co..... | 25 |
| | 3516 | Entomology | A. F. Conradi..... | 3 25 |
| | 3517 | Entomology | E. D. Sanderson..... | 12 36 |
| | 3518 | Entomology | E. D. Sanderson..... | 15 84 |
| | 3519 | Entomology | W. C. Boyett..... | 52 80 |
| | 3520 | Farmers institute..... | E. C. Green..... | 1 00 |
| | 3521 | Veterinary | W. C. Boyett..... | 3 35 |
| | 3522 | Contingent | G. H. Pope et al..... | 10 88 |
| | 3523 | M. E. supplies..... | Wm. Garyzke..... | 30 00 |
| | 3524 | Roads and grounds..... | A. Thompson..... | 55 00 |
| May 10, 1904 | 3562 | Wood | J. H. Suber..... | 375 55 |
| | 3609 | Agricultural | R. E. Thweatt..... | 45 00 |
| | 3610 | Agricultural | W. F. Express Co..... | 2 10 |
| May 10, 1904 | 3611 | Farmers institute..... | R. L. Bennett..... | 5 95 |

MAINTENANCE AND SUPPORT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|--------------|-------------|-------------------------|--------------------------------|---------|
| May 15, 1904 | 3612 | Entomological | E. D. Sanderson | 14 60 |
| | 3613 | Entomological | L. Scholl | 8 85 |
| | 3614 | Steam plant | G. Grupe et al. | 320 00 |
| | 3615 | Military | W. C. Boyett | 3 00 |
| | 3616 | Horticulture | E. C. Green | 10 33 |
| | 3617 | Farmers institute | J. W. Carson | 58 05 |
| | 3618 | Janitors | A. Murray | 15 00 |
| | 3632 | Botanical | E. Steiger | 6 25 |
| | 3633 | Entomology | F. Schneiderkind | 35 00 |
| | 3634 | Entomology | Howell Bros. | 4 50 |
| | 3635 | Entomology | A. C. Lewis | 1 65 |
| | 3636 | Military | Bryan Eagle | 4 25 |
| | 3637 | Contingent fund | Cole Hardware Co. | 2 50 |
| | 3638 | Contingent fund | Bryan Eagle | 6 00 |
| | 3639 | Contingent fund | Bryan Eagle | 2 25 |
| | 3640 | Contingent fund | Clarke & Courts | 12 00 |
| | 3641 | M. E. supplies | J. A. Myers | 19 00 |
| | 3642 | M. E. supplies | F. W. Heitman & Co. | 11 01 |
| | 3643 | Agricultural | Garth, Howell & Webb | 5 00 |
| May 15, 1904 | 3644 | Steam plant | Tom Padgett | 6 60 |
| | 3645 | Steam plant | W. P. Oil Co. | 36 88 |
| | 3646 | Steam plant | J. A. Myers | 24 05 |
| | 3674 | Salary | S. S. Wessell | 103 93 |
| May 17, 1904 | 3675 | Permanent labor | J. Riggs et al. | 60 00 |
| May 30, 1904 | 3688 | Salary | D. F. Houston | 41 66 |
| | 3689 | Salary | S. E. Gideon | 155 55 |
| May 30, 1904 | 3690 | Salary | T. C. Bittle | 200 00 |
| | 3691 | Salary | J. E. Platt | 100 00 |
| | 3692 | Salary | G. C. Embry | 100 00 |
| | 3693 | Salary | A. Mitchell | 83 33 |
| | 3694 | Salary | V. H. Foy | 70 00 |
| | 3695 | Salary | C. S. Potts | 133 33 |
| | 3696 | Salary | F. S. Johnston | 104 16 |
| | 3697 | Salary | J. H. Rietz | 133 33 |
| | 3698 | Salary | G. S. Fraps | 43 33 |
| | 3699 | Salary | W. C. Martin | 133 33 |
| | 3700 | Salary | O. M. Ball | 222 22 |
| | 3701 | Salary | N. H. Brown | 277 77 |
| | 3702 | Salary | D. W. Spence | 200 00 |
| | 3703 | Salary | Ira Cain | 75 00 |
| | 3704 | Salary | E. D. Sanderson | 145 83 |
| | 3705 | Salary | A. F. Conradi | 83 33 |
| | 3706 | Salary | L. Scholl | 66 66 |
| | 3707 | Salary | Sam Harlan | 125 00 |
| | 3708 | Salary | A. K. Agan | 60 00 |
| | 3709 | Salary | J. C. Clough | 75 00 |
| | 3710 | Salary | C. P. Fountain | 155 55 |
| | 3711 | Salary | J. W. Carson | 125 00 |
| | 3712 | Salary | M. Francis | 111 11 |
| | 3713 | Salary | F. Post | 40 00 |
| | 3714 | Salary | R. L. Bennett | 41 66 |
| | 3715 | Salary | F. R. Marshall | 150 00 |
| | 3716 | Salary | C. Kennedy | 40 00 |
| | 3717 | Salary | W. G. Drummond | 155 55 |
| | 3718 | Salary | F. T. Foley | 55 00 |
| | 3719 | Salary | Jerome Harrison | 65 00 |
| | 3720 | Salary | Ger S. Haltom | 10 00 |
| June 1, 1904 | 3769 | Entomology | Winhsel & Co. | 11 19 |
| | 3770 | Entomology | Nicotum Mfg. Co. | 2 70 |
| | 3771 | Entomology | G. H. Pittman | 1 50 |
| | 3772 | Entomology | Ozark Dust Sprayers | 9 00 |
| | 3773 | Entomology | James Bute | 15 00 |
| | 3774 | Entomology | Dorsey Printing Co. | 4 00 |
| | 3775 | Entomology | Cramer & Rosenthal | 3 67 |
| | 3776 | Entomology | A. C. Lewis | 24 82 |
| | 3777 | Entomology | A. H. Thomas Co. | 3 60 |
| | 3778 | Entomology | Herald Printing Co. | 5 35 |
| | 3779 | Entomology | W. B. Grice | 4 00 |
| | 3780 | Entomology | Houston Drug Co. | 14 75 |
| | 3781 | Entomology | Whitan Tatum & Co. | 36 28 |
| | 3782 | Botanical | University Chicago Press | 5 00 |
| | 3783 | Botanical | Leucke, Beuchner Co. | 2 25 |
| | 3784 | Botanical | Alexander S. Co. | 1 50 |
| | 3785 | Steam plant | Duncan Hobson Co. | 11 97 |
| | 3786 | Steam plant | Lone Star Oil Co. | 18 19 |

MAINTENANCE AND SUPPORT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-------------------------|------------------------------|---------|
| | 3787 | Steam plant..... | Banner Oil Co..... | 29 00 |
| | 3788 | Steam plant..... | J. A. Myers..... | 25 50 |
| | 3789 | Steam plant..... | National Ammonia Co..... | 47 10 |
| | 3790 | Agricultural..... | Farm Dept. A. M. C..... | 4 05 |
| | 3791 | Contingent fund..... | Bryan Eagle..... | 1 50 |
| | 3792 | Contingent fund..... | Bryan Eagle..... | 8 00 |
| | 3793 | Horticulture..... | Farm Dept. A. M. C..... | 1 40 |
| | 3794 | Physics..... | Howell Bros..... | 55 |
| | 3795 | Drawing..... | F. Weber & Co..... | 12 33 |
| | 3796 | C. E. supplies..... | Keuffel & Essen..... | 26 75 |
| | 3797 | Library..... | Baker & Taylor Co..... | 125 70 |
| June 1, 1904 | 3198 | Roads and grounds..... | Farm Dept. A. M. C..... | 97 50 |
| | 3799 | Roads and grounds..... | Garth, Howell & Webb..... | 50 |
| | 3800 | Roads and grounds..... | Johnston Harvester Co..... | 1 00 |
| June 6, 1904 | 3801 | Steam plant..... | J. H. Suber..... | 322 85 |
| | 3821 | Entomology..... | E. D. Sanderson..... | 11 04 |
| | 3822 | Entomology..... | E. D. Sanderson..... | 13 20 |
| | 3823 | Entomology..... | L. Scholl..... | 2 55 |
| | 3824 | Entomology..... | E. D. Sanderson..... | 11 74 |
| | 3825 | Farmers institute..... | G. S. Fraps..... | 30 |
| | 3826 | Farmers institute..... | E. J. Kyle..... | 2 75 |
| | 3828 | Contingent..... | W. F. Express Co..... | 25 |
| | 3829 | Botanical..... | O. M. Ball..... | 3 50 |
| | 3830 | Botanical..... | W. C. Boyett..... | 2 00 |
| | 3831 | Botanical..... | A. F. Wilson..... | 1 00 |
| | 3832 | Agricultural..... | J. H. Suber..... | 37 50 |
| | 3833 | Agricultural..... | T. R. Carson et al..... | 16 05 |
| | 3834 | Agricultural..... | H. & T. C. Ry. Co..... | 1 55 |
| | 3835 | Agricultural..... | W. F. Express Co..... | 45 |
| | 3836 | Agricultural..... | R. E. Thweatt..... | 45 00 |
| | 3827 | Salary..... | S. S. Wissell et al..... | 91 49 |
| | 3862 | Contingent..... | T. H. Ball..... | 25 00 |
| | 3863 | Contingent..... | Rev. S. R. Hay..... | 25 00 |
| June 11, 1904 | 3871 | Entomology..... | H. Baines..... | 35 99 |
| | 3905 | Salary..... | A. E. Withers..... | 60 00 |
| | 3906 | Janitors..... | C. Atkins et al..... | 96 00 |
| | 3907 | Permanent laborers..... | J. Riggs et al..... | 60 00 |
| | 3908 | Salary..... | J. Harrison..... | 21 65 |
| | 3909 | Salary..... | G. Haltom..... | 3 35 |
| June 11, 1904 | 3910 | Salary..... | P. Day..... | 33 90 |
| | 3911 | Salary..... | F. Post..... | 20 00 |
| | 3912 | Roads and grounds..... | A. Thompson..... | 55 00 |
| | 3913 | Roads and grounds..... | J. C. Nagle..... | 3 70 |
| | 3914 | M. E. supplies..... | W. Garzki..... | 30 00 |
| | 3915 | Steam plant..... | Geo. Grupe..... | 320 00 |
| | 3916 | Steam plant..... | W. D. Garnett et al..... | 9 15 |
| | 3917 | Steam plant..... | Al Harral..... | 8 35 |
| | 3918 | Board expenses..... | M. Sansom..... | 41 00 |
| | 3919 | Board expenses..... | F. Reichardt..... | 5 60 |
| | 3920 | Animal husbandry..... | H. & T. C. Ry. Co..... | 33 |
| | 3921 | Entomology..... | L. M. Lemmon..... | 2 85 |
| | 3922 | Entomology..... | C. Buchanan..... | 3 00 |
| | 3923 | Entomology..... | L. Scholl..... | 6 60 |
| | 3924 | Contingent fund..... | H. Ely et al..... | 18 30 |
| | 3942 | Board expenses..... | W. J. Clay..... | 3 25 |
| June 15, 1904 | 3943 | Board expenses..... | A. J. Brown..... | 19 90 |
| | 3944 | Steam plant..... | Cook Well Co..... | 49 14 |
| | 3945 | Steam plant..... | Babcock & Wilcox Co..... | 14 54 |
| | 3946 | Steam plant..... | J. A. Myers..... | 2 85 |
| | 3947 | Contingent..... | The Pilot..... | 4 00 |
| | 3948 | Contingent..... | J. A. Myers..... | 19 75 |
| | 3949 | Contingent..... | T. Haswell..... | 40 |
| | 3950 | Contingent..... | W. Tips..... | 30 00 |
| | 3951 | Contingent..... | Bryan Eagle..... | 2 50 |
| | 3952 | Physics..... | Ben S. Read..... | 95 |
| | 3953 | Military..... | J. A. Myers..... | 1 00 |
| | 3954 | Library..... | Am. Newspaper Directory..... | 10 00 |
| | 3955 | Library..... | Baker & Taylor Co..... | 4 80 |
| June 20, 1904 | 3956 | M. E. supplies..... | J. A. Myers..... | 16 50 |
| | 4049 | Salary..... | S. S. Wessell et al..... | 45 75 |
| | 4050 | Permanent laborers..... | F. Barnes..... | 17 06 |
| | 4051 | Janitors..... | C. Atkins et al..... | 18 13 |
| | 4052 | Farmers institute..... | E. C. Green..... | 7 50 |
| | 4053 | Animal husbandry..... | W. F. Express Co..... | 1 15 |
| | 4054 | Animal husbandry..... | H. & T. C. Ry. Co..... | 1 02 |

MAINTENANCE AND SUPPORT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-------------------------|----------------------------------|---------|
| | 4055 | Animal husbandry..... | H. & T. C. Ry. Co..... | 7 50 |
| | 4056 | Steam plant..... | I. & G. N. Ry. Co..... | 3 40 |
| | 4057 | Steam plant..... | I. & G. N. Ry. Co..... | 3 42 |
| | 4058 | Steam plant..... | I. & G. N. Ry. Co..... | 5 08 |
| | 4059 | Steam plant..... | H. & T. C. Ry. Co..... | 1 04 |
| | 4060 | Contingent..... | Pacific Express Co..... | 1 14 |
| | 4061 | Contingent..... | W. F. Express Co..... | 1 70 |
| | 4062 | Contingent..... | W. F. Express Co..... | 3 40 |
| | 4063 | Contingent..... | Finzen & Hamill..... | 2 94 |
| | 4064 | Contingent..... | W. U. Telegraph Co..... | 25 |
| | 4065 | Contingent..... | H. Clogenson..... | 69 00 |
| | 4066 | Contingent..... | J. A. Myers..... | 10 50 |
| | 4067 | Contingent..... | W. U. Telegraph Co..... | 75 |
| | 4068 | Contingent..... | Bryan Eagle..... | 5 00 |
| | 4069 | Contingent..... | Austin Book & Stationery Co..... | 10 60 |
| | 4071 | Entomology..... | W. J. Coulter..... | 1 20 |
| June 30, 1904 | 4094 | Salary..... | D. F. Houston..... | 333 33 |
| | 4095 | Salary..... | J. G. Harrison..... | 66 66 |
| | 4096 | Salary..... | J. A. Baker..... | 90 00 |
| | 4097 | Salary..... | J. A. Craig..... | 125 00 |
| | 4098 | Salary..... | F. S. Johnston..... | 104 16 |
| | 4099 | Salary..... | G. S. Fraps..... | 43 33 |
| | 4100 | Salary..... | Ira Cain..... | 75 00 |
| | 4101 | Salary..... | E. D. Sanderson..... | 145 83 |
| June 30, 1904 | 4102 | Salary..... | A. F. Conradi..... | 83 33 |
| | 4103 | Salary..... | L. Scholl..... | 66 66 |
| | 4104 | Salary..... | Sam Harlan..... | 125 00 |
| | 4105 | Salary..... | A. K. Agan..... | 60 00 |
| | 4106 | Salary..... | J. C. Clough..... | 75 00 |
| | 4107 | Salary..... | J. W. Carson..... | 125 00 |
| | 4108 | Salary..... | R. L. Bennett..... | 41 66 |
| | 4109 | Salary..... | F. R. Marshall..... | 150 00 |
| | 4110 | Salary..... | C. Kennedy..... | 40 00 |
| | 4111 | Salary..... | F. T. Foley..... | 55 00 |
| | 4130 | Board expenses..... | L. D. Amsler..... | 8 10 |
| | 4131 | Board expenses..... | K. K. Legett..... | 28 90 |
| July 6, 1904 | 4159 | Entomology..... | Garth. Howell & Webb..... | 1 65 |
| | 4160 | Contingent..... | T. Haswell..... | 25 |
| | 4161 | Contingent..... | Houston Printing Co..... | 1 53 |
| | 4162 | Contingent..... | Clarke & Courts..... | 1 35 |
| | 4163 | Contingent..... | Bryan Eagle..... | 31 00 |
| July 9, 1904 | 4200 | Contingent..... | W. A. Price..... | 33 00 |
| | 4201 | Contingent..... | Frost National Bank..... | 25 |
| | 4202 | Botanical..... | O. M. Ball..... | 23 33 |
| | 4203 | Steam plant..... | J. J. Jones..... | 3 00 |
| | 4204 | Steam plant..... | George Grupe et al..... | 121 40 |
| | 4205 | Entomology..... | A. F. Conradi..... | 19 05 |
| | 4206 | Entomology..... | C. E. Sanborne..... | 2 00 |
| | 4208 | Roads and grounds..... | A. Thompson..... | 55 00 |
| | 4209 | Farmers institute..... | S. W. Tel. & Tel. Co..... | 5 30 |
| | 4210 | Salary..... | A. E. Withers..... | 60 00 |
| | 4211 | Permanent laborers..... | J. Riggs et al..... | 60 00 |
| | 4219 | Roads and grounds..... | Garth. Howell & Webb..... | 57 99 |
| July 9, 1904 | 4220 | Roads and grounds..... | J. A. Myers..... | 5 95 |
| | 4231 | Farmers institute..... | G. F. Sigmond..... | 4 50 |
| | 4232 | Contingent..... | Galveston News..... | 1 56 |
| | 4233 | Contingent..... | Clarke & Courts..... | 15 00 |
| | 4234 | Contingent..... | Von Boeckmann, Jones & Co..... | 168 76 |
| July 30, 1904 | 4258 | Salary..... | D. F. Houston..... | 333 33 |
| | 4259 | Salary..... | J. G. Harrison..... | 66 66 |
| | 4260 | Salary..... | J. A. Baker..... | 90 00 |
| | 4261 | Salary..... | J. A. Craig..... | 125 00 |
| | 4262 | Salary..... | F. S. Johnston..... | 104 16 |
| | 4263 | Salary..... | G. S. Fraps..... | 43 33 |
| | 4264 | Salary..... | E. D. Sanderson..... | 145 33 |
| | 4265 | Salary..... | A. F. Conradi..... | 83 33 |
| | 4266 | Salary..... | L. Scholl..... | 66 66 |
| | 4267 | Salary..... | Sam Harlan..... | 125 00 |
| | 4268 | Salary..... | A. K. Agan..... | 60 00 |
| | 4269 | Salary..... | J. C. Clough..... | 75 00 |
| | 4270 | Salary..... | J. W. Carson..... | 125 00 |
| | 4271 | Salary..... | R. L. Bennett..... | 41 66 |
| | 4272 | Salary..... | F. R. Marshall..... | 150 00 |
| | 4273 | Salary..... | C. Kennedy..... | 40 00 |
| | 4274 | Salary..... | F. F. Foley..... | 55 00 |

MAINTENANCE AND SUPPORT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-------------------------|----------------------------------|-------------------|
| July 31, 1904 | 4343 | Board expenses..... | W. J. Clay..... | 6 25 |
| | 4344 | Farmers institute..... | J. W. Carson..... | 34 35 |
| | 4345 | Entomology | L. Scholl..... | 24 30 |
| | 4346 | Salary | A. E. Withers..... | 6 00 |
| | 4347 | Permanent laborers..... | J. A. Riggs et al..... | 60 00 |
| | 4348 | Contingent | H. & T. C. Ry. Co..... | 11 71 |
| | 4349 | Contingent | Pacific Express Co..... | 25 |
| July 31, 1904 | 4350 | Contingent | W. F. Express Co..... | 1 10 |
| | 4351 | Military | W. U. Telegraph Co..... | 25 |
| | 4352 | Roads and grounds..... | A. Thompson..... | 55 00 |
| Aug. 4, 1904 | 4370 | Board expenses..... | K. K. Legett..... | 27 15 |
| Aug. 31, 1904 | 4391 | Salary | D. F. Houston..... | 215 29 |
| | 4392 | Salary | J. G. Harrison..... | 66 66 |
| | 4393 | Salary | J. A. Baker..... | 90 00 |
| | 4394 | Salary | J. A. Craig..... | 125 00 |
| | 4395 | Salary | F. S. Johnston..... | 104 16 |
| | 4396 | Salary | G. S. Fraps..... | 43 33 |
| | 4397 | Salary | E. D. Sanderson..... | 145 83 |
| | 4398 | Salary | A. F. Conradi..... | 83 33 |
| | 4399 | Salary | L. Scholl..... | 66 66 |
| | 4400 | Salary | Sam Harlan..... | 125 00 |
| | 4401 | Salary | A. K. Agan..... | 60 00 |
| | 4402 | Salary | J. C. Cough..... | 70 00 |
| | 4403 | Salary | J. W. Carson..... | 125 00 |
| | 4404 | Salary | R. L. Bennett..... | 41 66 |
| | 4405 | Salary | F. R. Marshall..... | 150 00 |
| | 4406 | Salary | C. Kennedy | 40 00 |
| | 4407 | Salary | F. F. Foley..... | 55 00 |
| | 3918 | Board expenses..... | M. Sansom (error in V. 3918).... | 10 |
| | 4436 | Steam plant..... | Geo. Grupe..... | 90 00 |
| | 4487 | Steam plant..... | Geo. Grupe..... | 90 00 |
| | 4488 | Steam plant..... | I. & G. N. Ry. Co..... | 23 56 |
| | 4489 | Steam plant..... | I. & G. N. Ry. Co..... | 52 |
| | 4490 | Steam plant..... | H. & T. C. Ry. Co..... | 5 68 |
| | 4491 | Steam plant..... | H. & T. C. Ry. Co..... | 7 13 |
| | 4492 | Steam plant..... | W. U. Telegraph Co..... | 40 |
| Aug. 31, 1904 | 4493 | Contingent | W. U. Telegraph Co..... | 45 |
| | 4494 | Contingent | W. U. Telegraph Co..... | 25 |
| | 4495 | Contingent | W. U. Telegraph Co..... | 25 |
| | 4496 | Roads and grounds..... | A. Thompson..... | 55 00 |
| | 4497 | Roads and grounds..... | G. W. Reese..... | 15 00 |
| | 4498 | Permanent laborers..... | J. Riggs et al..... | 60 00 |
| | 4499 | Physics and E. E..... | W. F. Express Co..... | 4 70 |
| | 4500 | Physics and E. E..... | W. C. Boyett..... | 11 66 |
| | 4501 | Physics and E. E..... | H. & T. C. Ry. Co..... | 1 94 |
| | 4502 | Physics and E. E..... | I. & G. N. Ry. Co..... | 1 24 |
| | 4503 | Entomology | E. D. Sanderson..... | 14 76 |
| | 4504 | Library | W. C. Boyett..... | 81 |
| | 4505 | Contingent | A. E. Withers..... | 7 50 |
| | | | | <hr/> \$84,838 90 |

Appropriation 1902-03, \$25,000
Appropriation 1903-04, \$60,000

Balance \$85,000 161 10

ERECTION OF DWELLINGS ACCOUNT.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|------------------------------|-------------|-------------------------|-----------------------------|-------------|
| Sept. 14, 1903 | 78 | On Contract..... | G. H. & Webb..... | 300 00 |
| | 79 | On Contract..... | H. B. Lockhead..... | 104 05 |
| Sept. 19, 1903 | 90 | On Contract..... | G. H. & Webb..... | 750 00 |
| Oct. 6, 1903 | 235 | Advertising..... | H. P. Matthews..... | 8 00 |
| | 404 | Architect and fees..... | H. B. Lockhead..... | 125 00 |
| | 405 | Contract..... | G. H. & Webb..... | 1200 00 |
| Oct. 30, 1903 | 630 | Contract..... | G. H. & Webb..... | 2650 00 |
| | 692 | Cistern..... | G. H. & Webb..... | 225 95 |
| Nov. 5, 1903 | 815 | Freight..... | H. & T. C. Ry. Co..... | 3 76 |
| Nov. 23, 1903 | 1012 | Contract..... | G. H. & Webb..... | 920 00 |
| Dec. 10, 1903 | 1341 | Material..... | D. Hobson Electric Co..... | 266 07 |
| | 1370 | Freight..... | H. & T. C. Ry. Co..... | 2 13 |
| Dec. 19, 1903 | 1546 | Freight..... | H. & T. C. Ry. Co..... | 63 |
| Jan. 2, 1903 | 1691 | Contract..... | G. H. & Webb..... | 3396 24 |
| Jan. 7, 1903 | 1692 | Supplies..... | Interstate Electric Co..... | 77 |
| | 1693 | Supplies..... | Interstate Electric Co..... | 30 90 |
| Mch. 17, 1903 | 2719 | Material..... | General Electric Co..... | 11 08 |
| Mch. 28, 1903 | 2800 | Expense..... | W. U. Tel. Co..... | 80 |
| June 6, 1903 | 3841 | Expense..... | T. Hudson..... | 4 50 |
| Expended | | | | \$10,000 68 |
| Appropriation, 1903-04 | | | | \$10,000 00 |
| Balance overcheck | | | | 68 |

SANITARY ARRANGEMENT ACCOUNT.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|------------------------------|-------------|--------------------|---------------------------|------------|
| Sept. 30, 1903 | 268 | Arrangement | H. & T. C. Ry. Co..... | 21 35 |
| Jan. 12, 1903 | 1797 | Arrangement | S. S. Wessell..... | 15 80 |
| | 1798 | Arrangement | D. Ward et al..... | 39 62 |
| Feb. 9, 1903 | 2263 | Arrangement | S. S. Wessel et al..... | 30 75 |
| | 2264 | Arrangement | O. M. Evans et al..... | 4 10 |
| Feb. 20, 1903 | 2358 | Arrangement | J. A. Myres..... | 4 15 |
| | 2359 | Arrangement | G. H. & Webb..... | 11 25 |
| Mch. 17, 1903 | 2720 | Material | J. A. Myres..... | 7 10 |
| Apr. 15, 1903 | 3278 | Material | J. A. Myres..... | 3 25 |
| Apr. 28, 1903 | 3316 | Contract | Ahren & Ott Mfg. Co..... | 2285 63 |
| May 10, 1903 | 3607 | Expense | W. U. Tel. Co..... | 89 |
| | 3608 | Expense | D. Ward et al..... | 7 00 |
| May 15, 1903 | 3627 | Expense | F. W. Heitman & Co..... | 8 14 |
| June 6, 1903 | 3844 | Expense | B. Andrews et al..... | 4 00 |
| | 3845 | Expense | W. C. Boyett..... | 1 38 |
| July 12, 1903 | 4223 | Expense | Ahrens & Ott Mfg. Co..... | 55 40 |
| July 30, 1903 | 4328 | Expense | H. & T. C. Ry. Co..... | 19 |
| Expended | | | | \$2,500 00 |
| Appropriation, 1903-04 | | | | \$2,500 00 |

BARNs AND FENCES ACCOUNT.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|------------------------------|-------------|--------------------|-------------------------------|-------------|
| Dec. 17, 1903 | 1502 | Contract | G. H. & Webb | 1500 00 |
| Jan. 9, 1904 | 1764 | Contract | G. H. & Webb | 1500 00 |
| Feb. 1, 1904 | 2137 | Salary | H. B. Lochhead | 125 00 |
| Feb. 4, 1904 | 2153 | Contract | G. H. & Webb | 1500 00 |
| | 2154 | Architect | H. B. Lochhead | 250 00 |
| | 2512 | Fences | Dan Ward | 1 00 |
| Mch. 1, 1904 | 2562 | Salary | H. B. Lochhead | 125 00 |
| Mch. 15, 1904 | 2707 | Contract | G. H. & Webb | 1500 00 |
| Mch. 23, 1904 | 2794 | Fences | B. H. Spawn | 100 00 |
| Mch. 28, 1904 | 2966 | Architect | H. B. Lochhead | 125 00 |
| Apr. 28, 1904 | 3343 | Fences | Smith Wire & Iron Works | 1984 00 |
| May 10, 1904 | 3598 | Fences | B. H. Spawn | 25 00 |
| | 3599 | Fences | W. U. Tel. Co. | 58 |
| May 17, 1904 | 3674 | Barn | G. H. & Webb | 1000 00 |
| June 1, 1904 | 3747 | Insurance | G. A. Adams | 36 00 |
| June 6, 1904 | 3820 | Fences | B. Spawn | 35 00 |
| | 3928 | Fences | Tom Hudson | 18 00 |
| June 20, 1904 | 4005 | Labor | T. Carson et al. | 24 00 |
| | 4006 | Labor | B. Andrews et al. | 26 00 |
| | 4007 | Labor | T. Hudson et al. | 36 00 |
| | 4008 | Labor | G. W. Buchanan et al. | 22 70 |
| | 4009 | Labor | T. Hudson et al. | 21 00 |
| July 6, 1904 | 4167 | Fences | G. H. & Webb | 18 75 |
| July 31, 1904 | 4340 | Fences | B. H. Spawn | 37 80 |
| | 4341 | Fences | B. H. Spawn | 11 50 |
| | 4342 | Fences | A. E. Withers | 21 25 |
| Aug. 31, 1904 | 4452 | Fences | B. H. Spawn | 23 35 |
| Expended | | | | \$10,066 93 |
| Appropriation, 1903-04 | | | | \$10,000 00 |
| Balance overcheck | | | | \$66 93 |

ROADs AND GROUNDS ACCOUNT.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|------------------------------|-------------|--------------------|-----------------------------------|------------|
| Sept. 31, 1903 | 31 | Grader | Austin Western Co. (Ltd.) | 225 00 |
| Jan. 9, 1903 | 1786 | Campus | A. Thompson | 55 00 |
| Jan. 22, 1903 | 1926 | Campus | T. Haswell | 50 |
| | 1927 | Campus | Bryan Eagle | 4 25 |
| | 2304 | Campus | Tom Hudson | 10 50 |
| | 2305 | Campus | A. Thompson | 55 00 |
| Feb. 20, 1903 | 2355 | Campus | J. A. Myres | 18 20 |
| | 2356 | Campus | G. H. & Webb | 6 80 |
| | 2357 | Campus | J. L. Childs | 6 00 |
| Mch. 17, 1903 | 2743 | Material | J. A. Myres | 7 50 |
| | 2744 | Stationery | Austin Book & Stationery Co. | 1 25 |
| | 2745 | Stationery | J. L. Hanway | 3 10 |
| Expended | | | | \$393 10 |
| Appropriation, 1903-04 | | | | \$5,000 00 |
| Balance | | | | \$4,606 90 |

DEFICIENCY APPROPRIATION—STORM DAMAGE.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|--------------------|--------------------------------|---------|
| Mch. 19, 1902 | 2202 | Supplies | Peden Iron & Steel Co..... | 7 50 |
| Apr. 15, 1902 | 2366 | Storm damage | F. W. Heitman & Co..... | 22 17 |
| | 2367 | Storm damage | J. A. Myres..... | 3 15 |
| | 2369 | Storm damage | J. A. Myres..... | 59 75 |
| | 2370 | Storm damage | Garth, Howell & Webb..... | 3 60 |
| | 2371 | Storm damage | Garth, Howell & Webb..... | 22 00 |
| | 2372 | Storm damage | Garth, Howell & Webb..... | 3 09 |
| | 2373 | Storm damage | Garth, Howell & Webb..... | 3 00 |
| | 2374 | Storm damage | Garth, Howell & Webb..... | 1 98 |
| | 2375 | Storm damage | Garth, Howell & Webb..... | 77 35 |
| | 2376 | Storm damage | W. T. Wroe & Sons..... | 30 00 |
| | 2466 | Storm damage | W. F. Express..... | 2 10 |
| | 2467 | Storm damage | T. J. Ballard..... | 364 00 |
| | 2468 | Storm damage | W. L. Atkins..... | 73 00 |
| | 2469 | Storm damage | I. & G. N. Ry. Co..... | 22 44 |
| | 2470 | Storm damage | I. & G. N. Ry. Co..... | 4 77 |
| | 2471 | Storm damage | H. & T. C. Ry. Co..... | 1 70 |
| | 2472 | Storm damage | H. & T. C. Ry. Co..... | 4 89 |
| | 2473 | Storm damage | Pacific Express Co..... | 35 |
| | 2474 | Storm damage | Pacific Express Co..... | 25 |
| Apr. 18, 1902 | 2556 | Storm damage | John Bnoss | 400 00 |
| Apr. 28, 1902 | 2558 | Storm damage | Wm. Rigsby | 85 50 |
| | 2559 | Storm damage | Garth, Howell & Webb..... | 2 72 |
| | 2560 | Storm damage | Garth, Howell & Webb..... | 1 50 |
| | 2561 | Storm damage | Garth, Howell & Webb..... | 9 95 |
| | 2562 | Storm damage | Garth, Howell & Webb..... | 14 10 |
| | 2563 | Storm damage | Garth, Howell & Webb..... | 5 05 |
| | 2564 | Storm damage | J. A. Myres..... | 9 60 |
| | 2565 | Storm damage | J. A. Myres..... | 68 65 |
| | 2566 | Storm damage | J. A. Myres..... | 2 50 |
| | 2567 | Storm damage | Hill Bros. | 2 05 |
| | 2568 | Storm damage | Austin Book & Stationery Co.. | 4 79 |
| May 22, 1902 | 2808 | Storm damage | Waco Electrical Supply Co..... | 107 52 |
| | 2908 | Storm damage | W. F. Express Co..... | 30 |
| | 2909 | Storm damage | W. F. Express Co..... | 1 10 |
| | 2910 | Storm damage | I. & G. N. Ry. Co..... | 1 35 |
| | 2911 | Storm damage | H. Williams | 12 00 |
| | 2912 | Storm damage | Ed. Griffin | 22 50 |
| | 2913 | Storm damage | Ed. Griffin | 76 00 |
| | 2914 | Storm damage | J. Adams | 45 50 |
| | 2915 | Storm damage | H. & T. C. Ry. Co..... | 9 74 |
| | 2916 | Storm damage | H. & T. C. Ry. Co..... | 50 |
| | 2917 | Storm damage | H. & T. C. Ry. Co..... | 1 99 |
| | 2932 | Storm damage | John Bnoss | 726 78 |
| | 2934 | Storm damage | W. F. Express Co..... | 1 45 |
| | 2987 | Storm damage | Wm. Rigsby | 20 00 |
| June 10, 1902 | 3123 | Repairs | W. A. Burke | 2 40 |
| | 3129 | Repairs | H. Waddell | 131 50 |
| | 3130 | Repairs | Bering Cortez Hardware Co..... | 6 95 |
| | 3131 | Repairs | Bering Cortez Hardware Co..... | 17 97 |
| | 3132 | Repairs | Bering Cortez Hardware Co..... | 3 35 |
| | 3133 | Repairs | Ramsey & Seikiemeir Co..... | 2 35 |
| | 3134 | Repairs | Jas. Bute | 48 48 |
| | 3135 | Repairs | Jas. Bute | 49 66 |
| | 3136 | Repairs | J. T. Hamway | 6 30 |
| | 3137 | Repairs | Stevenson Machinery Co..... | 2 25 |
| | 3138 | Repairs | Garth, Howell & Webb..... | 19 55 |
| | 3139 | Repairs | Garth, Howell & Webb..... | 2 65 |
| | 3140 | Repairs | Garth, Howell & Webb..... | 1 41 |
| | 3141 | Repairs | Garth, Howell & Webb..... | 6 56 |
| | 3142 | Repairs | Garth, Howell & Webb..... | 50 |
| | 3143 | Repairs | Garth, Howell & Webb..... | 1 20 |
| | 3144 | Repairs | Garth, Howell & Webb..... | 7 30 |
| | 3145 | Repairs | Garth, Howell & Webb..... | 1 20 |
| | 3146 | Repairs | Waco Electric Supply Co..... | 94 |
| | 3147 | Repairs | Waco Electric Supply Co..... | 12 95 |
| | 3148 | Repairs | Waco Electric Supply Co..... | 2 31 |
| | 3149 | Repairs | Waco Electric Supply Co..... | 56 75 |
| | 3150 | Repairs | W. Sips | 3 95 |
| | 3151 | Repairs | W. Sips | 1 70 |
| | 3152 | Repairs | T. Haswell | 65 |
| | 3153 | Repairs | Gunn Furniture Co..... | 50 |
| | 3154 | Repairs | A. C. Lottman..... | 64 00 |
| | 3155 | Repairs | Treasury, A. & M. C..... | 24 00 |
| | 3260 | Labor | Ed. Griffin | 15 00 |

DEFICIENCY APPROPRIATION—STORM DAMAGE—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|--|-------------|--------------------|-----------------------------------|-----------|
| | 3261 | Labor | Ed. Griffin | 62 00 |
| | 3262 | Labor | M. Gentry | 48 10 |
| | 3263 | Labor | Jas. Adams | 45 50 |
| | 3264 | Labor | Tom Rone | 10 00 |
| | 3265 | Labor | Tom Rone | 10 00 |
| | 3281 | Material | J. A. Myres | 13 35 |
| | 3282 | Material | Garth, Howell & Webb | 70 |
| June 20, 1902 | 3352 | Repairs | T. J. Buttney | 395 93 |
| | 3353 | Repairs | C. B. Moreland | 1944 60 |
| | 3354 | Repairs | H. P. McLaughlin & Co. | 116 19 |
| June 30, 1902 | 3388 | Postage | W. C. Boyett | 10 50 |
| | 3397 | Labor | A. Carson | 3 00 |
| | 3398 | Labor | J. Adams | 45 50 |
| | 3399 | Labor | H. Williams et al. | 8 00 |
| | 3400 | Labor | Jim Jackson | 1 25 |
| | 3401 | Labor | Wm. Vincent | 65 |
| July 10, 1902 | 3454 | Repairs | Waco Electrical Supply Co. | 2 64 |
| | 3455 | Repairs | Garth, Howell & Webb | 35 65 |
| July 16, 1902 | 3505 | Repairs | Garth, Howell & Webb | 113 97 |
| | 3506 | Repairs | Garth, Howell & Webb | 3 75 |
| | 3507 | Repairs | Haldeman & Co. | 20 35 |
| | 3521 | Repairs | H. Williams | 18 25 |
| Aug. 1, 1902 | 3602 | Repairs | J. A. Myres | 21 76 |
| | 3643 | Repairs | L. Sessums et al. | 2 00 |
| | 3644 | Repairs | Jim Adams | 47 25 |
| Aug. 15, 1902 | 3690 | Typewriter | Remington Typewriter Co. | 100 00 |
| Aug. 31, 1902 | 3832 | Repairs | Mosher Mfg. Co. | 57 25 |
| | 3833 | Repairs | Garth, Howell & Webb | 115 49 |
| | 3834 | Repairs | J. A. Myres | 9 10 |
| | 3835 | Repairs | H. & T. C. Ry. Co. | 75 |
| | 3836 | Repairs | Farm. Department, A. & M. C. | 18 00 |
| Sept. 25, 1902 | 127 | Storm damage | Garth, Howell & Webb | 26 55 |
| Expended | | | | \$6142 59 |
| By amount transferred to Treasurer's account | | | | \$72 59 |
| Appropriation | | | | 6370 00 |
| | | | | \$6142 59 |
| | | | | \$6142 59 |

CHEMICAL ANALYSIS ACCOUNT.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|----------------|-------------|--------------------|---------------------------|---------|
| Sept. 30, 1902 | 38 | Salary | N. Frankel | 16 66 |
| | 39 | Salary | r. S. Tilson | 8 33 |
| | 40 | Salary | O. D. Hargis | 66 66 |
| Oct. 7, 1902 | 72 | Expense | J. V. Love | 20 |
| | 73 | Expense | H. Hill Chemical Co. | 11 40 |
| | 74 | Expense | Einer & Ammond | 11 65 |
| | 75 | Expense | Bryan Eagle | 3 08 |
| Oct. 20, 1902 | 247 | Expense | Tom Padgett Co. | 12 50 |
| | 248 | Expense | Webb Bros. | 2 00 |
| | 249 | Expense | F. W. Heitman & Co. | 25 |
| | 250 | Expense | W. F. Express Co. | 6 40 |
| | 251 | Expense | Bryan Eagle | 9 14 |
| | 252 | Expense | Bryan Eagle | 31 17 |
| | 253 | Oil | W. P. Oil Co. | 14 28 |
| | 254 | Expense | American Fertilizer | 2 00 |
| | 255 | Supplies | H. Hill Chemical Co. | 45 52 |
| | 256 | Expense | F. W. Heitman & Co. | 75 |

CHEMICAL ANALYSIS ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|--------------------|-------------------------------|---------|
| | 257 | Expense | Hall's Drug Store | 85 |
| | 258 | Expense | Ben S. Read | 3 05 |
| | 259 | Expense | Bryan Eagle | 42 45 |
| | 250 | Expense | W. H. James | 1 15 |
| | 261 | Expense | Waco Electric Supply Co. | 1 28 |
| | 345 | Salary | P. S. Tilson | 50 00 |
| | 346 | Expense | H. & T. C. Ry. Co. | 1 30 |
| | 347 | Expense | I. & G. N. Ry. Co. | 1 13 |
| | 348 | Expense | Pacific Express Co. | 4 85 |
| | 349 | Labor | B. Youngblood | 1 00 |
| | 350 | Labor | B. Youngblood | 3 00 |
| | 351 | Expense | W. F. Express Co. | 2 15 |
| | 352 | Expense | R. Foster | 2 00 |
| | 353 | Expense | W. U. Tel. Co. | 1 25 |
| | 354 | Expense | John Ingram | 22 |
| | 355 | Labor | V. Barta | 5 66 |
| | 356 | Labor | V. Barta | 11 90 |
| | 357 | Postage | W. C. Boyett | 5 00 |
| | 358 | Postage | W. C. Boyett | 5 00 |
| Oct. 30, 1902 | 492 | Salary | P. S. Tilson | 8 33 |
| | 493 | Salary | N. Frankel | 16 66 |
| | 494 | Salary | O. D. Hargis | 66 66 |
| Nov. 15, 1902 | 673 | Expense | W. F. Express Co. | 6 25 |
| | 674 | Expense | Pacific Express Co. | 65 |
| Nov. 27, 1902 | 769 | Books | J. B. Lippincott Co. | 5 17 |
| | 770 | Oil | W. P. Oil Co. | 14 14 |
| | 771 | Printing | Bryan Eagle | 72 90 |
| | 772 | Expense | T. Haswell | 2 80 |
| | 773 | Expense | W. T. & Co. | 14 85 |
| Nov. 30, 1902 | 837 | Salary | P. S. Tilson | 8 33 |
| | 838 | Salary | N. Frankel | 16 66 |
| | 839 | Salary | O. D. Hargis | 66 66 |
| Dec. 10, 1902 | 909 | Laboratories | E. Sessemis | 1 00 |
| | 910 | Laboratories | C. Benson | 2 50 |
| | 911 | Expense | W. F. Express Co. | 1 20 |
| Dec. 30, 1902 | 1106 | Expense | W. F. Express Co. | 1 50 |
| | 1107 | Labor | C. R. McMillan | 3 30 |
| | 1108 | Labor | Jim Scott | 9 70 |
| | 1206 | Salary | P. S. Tilson | 8 33 |
| | 1207 | Salary | N. Frankel | 16 66 |
| | 1205 | Salary | O. D. Hargis | 66 66 |
| Jan. 2, 1903 | 1230 | Labor | Wm. Rigsby | 7 50 |
| Jan. 12, 1903 | 1341 | Expense | B. S. Read | 1 70 |
| | 1342 | Expense | J. A. Myres | 4 85 |
| | 1343 | Expense | G. S. Parker | 114 73 |
| | 1344 | Expense | G. S. Parker | 39 31 |
| | 1345 | Expense | James & Hart | 3 00 |
| | 1346 | Expense | G. E. Steckert | 1 32 |
| | 1347 | Expense | G. E. Steckert | 11 97 |
| | 1348 | Expense | Hill Bros. & Co. | 38 78 |
| | 1349 | Expense | H. Waddell | 57 00 |
| | 1350 | Expense | H. Waddell | 16 00 |
| | 1351 | Building | G. H. & Webb | 63 |
| | 1352 | Expense | Bryan Eagle | 9 20 |
| | 1350 | Tags | Bryan Eagle | 26 00 |
| | 1354 | Expense | Bryan Eagle | 83 65 |
| | 1409 | Expense | I. & G. N. Ry. Co. | 3 71 |
| | 1410 | Labor | I. Woods | 3 00 |
| | 1411 | Labor | J. Froelick | 113 75 |
| | 1412 | Labor | D. Gregg | 15 90 |
| | 1413 | Expense | W. F. Express Co. | 35 |
| | 1414 | Expense | H. H. Harrington | 4 00 |
| Jan. 26, 1903 | 1527 | Expense | Bryan Eagle | 4 00 |
| Jan. 30, 1903 | 1608 | Salary | P. S. Tilson | 8 33 |
| | 1609 | Salary | N. Frankel | 16 66 |
| | 1610 | Salary | O. D. Hargis | 66 66 |
| Feb. 10, 1903 | 1673 | Building | G. S. Parker et al | 110 37 |
| | 1674 | Building | Willn Mfg. Co. | 40 00 |
| | 1675 | Expense | Bryan Eagle | 133 73 |
| | 1767 | Laboratory | Neff & Moore | 4 00 |
| | 1768 | Building | M. R. Kelley | 16 15 |
| | 1769 | Building | F. Huworka | 16 25 |
| | 1770 | Building | F. Huworka | 23 25 |
| | 1771 | Building | F. Huworka | 15 00 |
| | 1772 | Building | H. & T. C. Ry. Co. | 2 10 |

CHEMICAL ANALYSIS ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|--------------------|------------------------------|---------|
| | 1773 | Expense | Pacific Express Co..... | 50 |
| | 1774 | Expense | W. U. Tel. Co..... | 1 20 |
| Feb. 28, 1903 | 1775 | Expense | W. F. Express Co..... | 2 80 |
| | 1950 | Salary | P. S. Tilson..... | 8 33 |
| | 1951 | Salary | N. Frankel..... | 16 66 |
| | 1952 | Salary | O. D. Hargis..... | 66 66 |
| Mch. 12, 1903 | 1989 | Building | G. S. Parker..... | 56 84 |
| | 1990 | Building | C. L. & Theo. Berring..... | 43 50 |
| | 1991 | Expense | H. Waddell..... | 49 32 |
| | 1992 | Expense | J. J. Pastoriza Co..... | 1 95 |
| | 1993 | Expense | Bryan Eagle..... | 84 35 |
| | 1994 | Expense | Houston Drug Co..... | 1 75 |
| Mch. 13, 1903 | 2121 | Expense | D. A. Hartman..... | 75 |
| | 2122 | Expense | W. F. Express Co..... | 35 |
| | 2123 | Expense | F. Huworka..... | 12 50 |
| | 2124 | Expense | I. & G. N. Ry. Co..... | 36 81 |
| | 2125 | Expense | A. E. Withers..... | 25 00 |
| | 2126 | Expense | I. & G. N. Ry. Co..... | 36 81 |
| | 2127 | Expense | A. C. Love..... | 6 65 |
| Mch. 30, 1903 | 2263 | Salary | P. S. Tilson..... | 8 33 |
| | 2264 | Salary | N. Frankel..... | 16 66 |
| | 2265 | Salary | O. D. Hargis..... | 66 66 |
| Apr. 8, 1903 | 2294 | Building | J. T. Froelich..... | 186 25 |
| Apr. 15, 1903 | 2492 | Building | A. J. Neff..... | 3 00 |
| | 2493 | Labor | A. E. Withers..... | 25 25 |
| | 2494 | Labor | H. Williams..... | 6 00 |
| | 2495 | Labor | H. Williams..... | 6 50 |
| | 2496 | Labor | Myers et al..... | 14 15 |
| | 2497 | Labor | Myers et al..... | 6 30 |
| | 2498 | Expense | W. C. Boyett..... | 80 |
| | 2499 | Expense | W. C. Boyett..... | 10 00 |
| | 2500 | Expense | W. Atkins..... | 12 50 |
| | 2501 | Freight | I. & G. N. Ry. Co..... | 5 14 |
| | 2502 | Expense | W. J. Christian..... | 1 00 |
| | 2503 | Labor | J. T. Froelich..... | 1 00 |
| | 2504 | Freight | H. & T. C. Ry. Co..... | 37 |
| Apr. 28, 1903 | 2612 | Buildings | G. S. Parker..... | 55 35 |
| | 2613 | Expense | Bryan Eagle..... | 45 00 |
| | 2614 | Expense | Waco Electric Supply Co..... | 7 91 |
| | 2615 | Expense | Levy Bros..... | 2 50 |
| | 2616 | Expense | J. Willey & Sons..... | 13 59 |
| | 2617 | Expense | T. Haswell..... | 40 55 |
| | 2618 | Expense | Stevenson M. & R. Co..... | 164 41 |
| | 2619 | Expense | Singer Bros..... | 5 43 |
| | 2620 | Expense | James Bute..... | 1 25 |
| | 2621 | Expense | H. Hill Chemical Co..... | 60 59 |
| Apr. 30, 1903 | 2698 | Salary | P. S. Tilson..... | 8 35 |
| | 2699 | Salary | N. Frankel..... | 16 66 |
| | 2700 | Salary | O. D. Hargis..... | 66 66 |
| May 22, 1903 | 2809 | Building | Hill Bros. & Co..... | 351 59 |
| | 2810 | Building | G. S. Parker..... | 6 48 |
| | 2811 | Expense | Levy Bros..... | 1 50 |
| | 2812 | Expense | F. W. Heitman & Co..... | 1 75 |
| | 2813 | Expense | S. Cavot..... | 16 00 |
| | 2814 | Equipment | H. Hill Chemical Co..... | 39 10 |
| | 2815 | Expense | G. E. Steckert..... | 10 98 |
| | 2816 | Expense | Bryan Eagle..... | 11 55 |
| | 2888 | Expense | H. H. Harrington..... | 60 00 |
| | 2889 | Labor | A. J. Neff..... | 4 00 |
| | 2890 | Labor | Meek et al..... | 21 70 |
| | 2891 | Labor | A. Jackson..... | 6 00 |
| | 2892 | Labor | F. Elbrick..... | 1 25 |
| | 2942 | Labor | A. E. Withers..... | 1 50 |
| | 2943 | Expense | W. F. Express Co..... | 2 10 |
| | 2944 | Expense | H. & T. C. Ry. Co..... | 68 |
| | 2945 | Expense | Pacific Express Co..... | 60 |
| | 2946 | Expense | W. U. Tel. Co..... | 1 40 |
| | 2947 | Expense | I. & G. N. Ry. Co..... | 2 49 |
| | 2985 | Labor | W. Ringsby..... | 20 50 |
| May 30, 1903 | 3030 | Salary | P. S. Tilson..... | 8 33 |
| | 3031 | Salary | N. Frankel..... | 16 66 |
| | 3032 | Salary | O. D. Hargis..... | 66 66 |
| June 10, 1903 | 3088 | Expense | Bryan Eagle..... | 12 40 |
| | 3089 | Expense | Bryan Eagle..... | 5 20 |
| | 3090 | Expense | G. E. Stechert..... | 19 53 |

CHEMICAL ANALYSIS ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|----------------|-------------|--------------------|------------------------------|---------|
| | 3091 | Expense | Houston Drug Co..... | 1 00 |
| | 3092 | Expense | Hill Bros..... | 2 00 |
| | 3094 | Expense | J. J. Pastoriza & Co..... | 1 00 |
| | 3095 | Expense | W. P. Oil Co..... | 28 98 |
| | 3096 | Expense | H. Hill Chemical Co..... | 14 93 |
| | 3097 | Expense | J. J. Pastoriza Co..... | 1 00 |
| | 3098 | Expense | J. A. Myres..... | 36 69 |
| | 3099 | Expense | J. Wiley & Sons..... | 2 53 |
| June 10, 1903 | 3241 | Expense..... | T. E. Taylor..... | 1 25 |
| | 3242 | Expense | Pacific Express Co..... | 60 |
| | 3243 | Expense | I. & G. N. Ry. Co..... | 1 98 |
| | 3244 | Expense | W. F. Express Co..... | 85 |
| | 3245 | Labor | J. Steward..... | 45 |
| | 3335 | Expense | W. F. Express Co..... | 1 70 |
| | 3336 | Expense | Pacific Express Co..... | 35 |
| | 3337 | Freight | H. & T. C. Ry. Co..... | 35 15 |
| | 3338 | Freight | I. & G. N. Ry. Co..... | 1 33 |
| June 30, 1903 | 3339 | Labor | E. L. Meyers et al..... | 5 50 |
| | 3371 | Salary | P. S. Tilson..... | 8 33 |
| | 3372 | Salary | N. Frankel..... | 16 66 |
| | 3373 | Salary | O. D. Hargis..... | 66 66 |
| | 3389 | Postage | W. C. Boyett, P. M..... | 10 00 |
| | 3417 | Freight | I. & G. N. Ry. Co..... | 1 33 |
| July 10, 1903 | 3456 | Expense | Clarke & Fountain..... | 7 60 |
| | 3457 | Expense | James & Hart..... | 2 70 |
| | 3458 | Expense | Subsistence department | 6 08 |
| | 3459 | Expense | J. J. Pastoriza Co..... | 4 25 |
| | 3460 | Expense | W. P. Oil Co..... | 14 31 |
| | 3461 | Expense | W. P. Oil Co..... | 9 34 |
| | 3462 | Expense | H. Hill Chemical Co..... | 7 62 |
| July 16, 1903 | 3520 | Labor | J. Steward..... | 50 |
| July 30, 1903 | 3569 | Salary | P. S. Tilson..... | 8 33 |
| | 3570 | Salary | N. Frankel..... | 16 66 |
| | 3571 | Salary | O. D. Hargis..... | 66 66 |
| Aug. 1, 1903 | 3681 | Expense | W. C. Boyett, P. M..... | 1 00 |
| Aug. 15, 1903 | 3683 | Expense | Bryan Tel. Co..... | 4 00 |
| | 3684 | Expense | J. A. Myres..... | 3 95 |
| | 3685 | Expense | D. Appleton & Co..... | 98 |
| | 3686 | Expense | Curtis Studio..... | 1 00 |
| | 3687 | Expense | G. E. Stockert..... | 18 55 |
| | 3688 | Expense | H. Hill Chemical Co..... | 2 72 |
| Aug. 25, 1903 | 3702 | Expense | S. M. Rep. Co..... | 11 30 |
| | 3703 | Expense | T. Haswell..... | 11 47 |
| Aug. 30, 1903 | 3748 | Salary | P. S. Tilson..... | 8 33 |
| | 3749 | Salary | N. Frankel..... | 16 66 |
| | 3750 | Salary | O. D. Hargis..... | 66 66 |
| | 3774 | Labor | N. F. Carson..... | 3 00 |
| | 3775 | Labor | V. Barton..... | 1 10 |
| Sept. 30, 1903 | 246 | Freight | I. & G. N. Ry. Co..... | 12 80 |
| | 247 | Expense | H. & T. C. Ry. Co..... | 86 |
| | 248 | Expense | H. & T. C. Ry. Co..... | 86 |
| | 249 | Expense | W. F. Express Co..... | 2 35 |
| | 250 | Expense | W. F. Express Co..... | 1 30 |
| | 251 | Labor | A. E. Withers..... | 7 00 |
| | 252 | Labor | J. Kinconon..... | 11 20 |
| | 253 | Expense | H. H. Harrington..... | 7 20 |
| | 254 | Labor | W. W. Phillips..... | 79 00 |
| | 255 | Labor | S. E. Gideon..... | 5 00 |
| | 256 | Labor | R. Bell..... | 14 00 |
| | 257 | Labor | W. P. Phillips..... | 13 00 |
| | 288 | Labor | C. Thompson..... | 2 00 |
| | 259 | Expense | W. U. Tel. Co..... | 70 |
| Oct. 6, 1903 | 320 | Expense | A. & M. College..... | 20 |
| | 321 | Expense | W. P. Oil Co..... | 26 50 |
| | 322 | Expense | G. E. Strechert..... | 8 01 |
| | 323 | Expense | Bryan Tel. Co..... | 4 00 |
| | 324 | Expense | A. & M. College..... | 15 00 |
| | 325 | Building | F. W. Heitman & Co..... | 14 80 |
| | 326 | Building | G. S. Parker..... | 140 85 |
| | 327 | Expense | A. Murdock Co..... | 37 50 |
| | 328 | Expense | Clarke & Courts..... | 22 10 |
| | 329 | Supplies | The B. Drug Co..... | 9 85 |
| | 330 | Expense | The Bryan Eagle..... | 4 50 |
| | 331 | Supplies | H. Hill Chemical Co..... | 182 51 |
| Oct. 9, 1903 | 431 | Expense | M. H. James..... | 1 40 |

CHEMICAL ANALYSIS ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|---------------------|------------------------------|---------|
| | 432 | Expense | S. W. Tel. Co. | 3 95 |
| | 433 | Expense | G. E. Stechert | 7 42 |
| | 434 | Printing | Bryan Eagle | 8 75 |
| | 478 | Labor | J. Ramsey | 6 92 |
| Oct. 30, 1903 | 479 | Express | W. F. Express Co. | 3 85 |
| | 609 | Expense | Curtis Studio | 7 50 |
| Nov. 5, 1903 | 691 | Salary | P. S. Tilson | 83 33 |
| | 841 | Expense | I. & G. N. Ry. Co. | 85 |
| | 842 | Janitor | J. Ramsey | 5 00 |
| | 843 | Expense | W. F. Express Co. | 35 |
| | 844 | Expense | Pacific Express Co. | 1 55 |
| | 845 | Expense | W. U. Tel. Co. | 60 |
| | 846 | Freight | H. & T. C. Ry. Co. | 3 18 |
| Nov. 30, 1903 | 847 | Expense | H. & T. C. Ry. Co. | 15 99 |
| | 1072 | Salary | P. S. Tilson | 83 33 |
| | 1165 | Supplies | Hill Chemical Co. | 368 59 |
| | 1166 | Freight | Bryan Eagle | 20 80 |
| | 1167 | Freight | Bryan Eagle | 39 80 |
| | 1169 | Expense | Houston Drug Co. | 95 |
| | 1169 | Expense | M. H. James | 1 80 |
| | 1170 | Expense | W. U. Tel. Co. | 25 |
| | 1171 | Books | G. E. Steckert | 6 88 |
| Dec. 10, 1903 | 1259 | Labor | L. Sessemis | 7 50 |
| | 1347 | Freight | H. & T. C. Ry. Co. | 7 73 |
| | 1348 | Expense | W. F. Express Co. | 25 |
| | 1349 | Expense | W. C. Boyett, P. M. | 5 00 |
| | 1418 | Labor | S. Payne | 12 00 |
| Dec. 24, 1903 | 1619 | Expense | R. M. Chaplin | 14 70 |
| Dec. 30, 1903 | 1651 | Salary | P. S. Tilson | 83 33 |
| Jan. 12, 1904 | 1778 | Labor | J. Ramsey | 5 00 |
| Jan. 22, 1904 | 1779 | Labor | W. C. Martin | 9 45 |
| | 1874 | Fert. account | Bryan Eagle | 268 81 |
| | 1875 | Supplies | W. T. & Co. | 230 32 |
| | 1876 | Supplies | Eimer & Amend | 58 00 |
| | 1877 | Supplies | C. H. Stoelting | 49 70 |
| Jan. 30, 1904 | 1878 | Supplies | Houston Gas Light Co. | 6 05 |
| Feb. 1, 1904 | 2009 | Salary | P. S. Tilson | 83 33 |
| | 2059 | Expense | H. & T. C. Ry. Co. | 3 63 |
| | 2060 | Expense | W. F. Express Co. | 60 |
| Feb. 9, 1904 | 2061 | Expense | W. C. Boyett, P. M. | 5 00 |
| | 2262 | Refunds | Longview Oil Co. | 50 00 |
| | 2306 | Labor | J. Ramsey | 10 00 |
| | 2307 | Expense | W. U. Tel. Co. | 72 |
| Feb. 20, 1904 | 2308 | Freight | H. & T. C. Ry. Co. | 5 00 |
| | 2361 | Expense | Elmer & Amend | 65 46 |
| | 2362 | Expense | Thos. Boyce | 3 90 |
| | 2363 | Expense | Carter's Studio | 29 57 |
| | 2364 | Expense | W. F. Express Co. | 3 15 |
| | 2365 | Expense | W. P. Oil Co. | 9 35 |
| | 2366 | Expense | W. P. Oil Co. | 28 62 |
| Feb. 27, 1904 | 2367 | Supplies | Hill Chemical Co. | 4 75 |
| | 2460 | Salary | P. S. Tilson | 83 33 |
| | 2470 | Expense | Houston Gas Light Co. | 11 55 |
| | 2471 | Expense | J. Bute | 48 80 |
| | 2518 | Expense | W. C. Boyett, P. M. | 5 00 |
| | 2519 | Expense | H. & T. C. Ry. Co. | 6 93 |
| Mch. 1, 1904 | 2520 | Expense | Pacific Express Co. | 60 |
| | 2577 | Expense | Hill Bros. | 299 88 |
| | 2578 | Expense | M. Chemical Works | 53 39 |
| | 2579 | Expense | W. S. Co. | 25 92 |
| Mch. 9, 1904 | 2580 | Library | Am. Chemical Journal | 5 00 |
| | 2686 | Expense | Pacific Express Co. | 75 |
| | 2687 | Expense | W. C. Boyett, P. M. | 5 00 |
| Mch. 17, 1904 | 2688 | Expense | H. & T. C. Ry. Co. | 1 39 |
| | 2723 | Expense | E. J. Jenkins | 35 |
| | 2724 | Expense | Bryan Tel. Co. | 12 00 |
| | 2725 | Books | Am. Fertilizer | 2 00 |
| | 2726 | Books | J. E. Steckert | 17 50 |
| Mch. 28, 1904 | 2727 | Fertilizer | Bryan Eagle | 275 76 |
| | 2815 | Expense | W. F. Express Co. | 1 10 |
| | 2816 | Equipment | Andrews & Co. | 132 00 |
| | 2817 | Expense | W. T. & Co. | 58 |
| | 2818 | Expense | Texas Seed & Floral Co. | 2 60 |
| | 2819 | Expense | S. W. Tel. Co. | 45 |
| | 2820 | Expense | H. & T. C. Ry. Co. | 52 |

CHEMICAL ANALYSIS ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|----------------|------------------------------------|--------------------|--------------------------|-----------|
| April 6, 1904 | 2821 | Labor | A. Murray | 12 85 |
| | 2822 | Expense | I. & G. N. Ry. Co. | 32 |
| | 2823 | Expense | Pacific Express Co. | 60 |
| | 2824 | Expense | Pacific Express Co. | 50 |
| | 2825 | Expense | Pacific Express Co. | 30 |
| | 2911 | Salary | P. S. Tilson | 83 33 |
| | 2974 | Material | J. A. Myres | 72 16 |
| | 2975 | Material | Webb Bros. | 2 50 |
| | 2976 | Material | Hill Chemical Co. | 3 25 |
| | 2977 | Material | M. H. James | 9 95 |
| | 2978 | Expense | W. P. Oil Co. | 28 62 |
| | 2979 | Material | T. H. Kessler & Co. | 29 00 |
| | 2980 | Material | T. Haswell | 7 45 |
| | 2981 | Material | Clarke & Fountain | 1 00 |
| | 2982 | Postage | W. C. Boyett | 2 70 |
| | 2983 | Expense | S. W. Tel. Co. | 45 |
| April 15, 1904 | 2984 | Labor | A. Murray | 7 50 |
| | 3258 | Expense | W. F. Express Co. | 35 |
| | 3259 | Expense | I. & G. N. Ry. Co. | 1 49 |
| | 3260 | Expense | W. C. Boyett, P. M. | 5 00 |
| April 28, 1904 | 3261 | Expense | Pacific Express Co. | 30 |
| | 3336 | Expense | Bryan Eagle | 45 65 |
| | 3337 | Supplies | Eimer & Amend | 60 96 |
| | 3338 | Expense | W. P. Oil Co. | 28 62 |
| April 30, 1904 | 3435 | Salary | P. S. Tilson | 83 33 |
| | 3492 | Express | W. F. Express Co. | 30 |
| May 15, 1904 | 3625 | Material | F. Macey & Co. | 1 16 |
| | 3626 | Material | T. H. Kessler & Co. | 7 85 |
| May 31, 1904 | 3742 | Salary | P. S. Tilson | 83 33 |
| June 1, 1904 | 3746 | Oil | W. P. Oil Co. | 28 10 |
| | 3846 | Expense | I. & G. N. Ry. Co. | 1 44 |
| June 11, 1904 | 3930 | Expense | A. Murray | 25 00 |
| June 15, 1904 | 3981 | Expense | B. S. Read | 3 15 |
| June 20, 1904 | 4011 | Expense | W. C. Boyett, P. M. | 5 00 |
| | 4012 | Expense | W. U. Tel. Co. | 70 |
| June 30, 1904 | 4118 | Salary | P. S. Tilson | 83 33 |
| July 6, 1904 | 4164 | Expense | G. E. Steckert | 3 93 |
| | 4165 | Expense | Bryan Eagle | 46 02 |
| July 9, 1904 | 4184 | Expense | A. Murray | 20 70 |
| July 30, 1904 | 4275 | Salary | P. S. Tilson | 83 33 |
| | 4325 | Labor | A. Murray | 20 00 |
| Aug. 31, 1904 | 4423 | Salary | P. S. Tilson | 83 33 |
| | 4427 | Account | I. & G. N. Ry. Co. | 05 |
| | 4453 | Labor | A. Murray | 20 00 |
| | 4454 | Expense | W. C. Martin | 30 45 |
| | 4455 | Expense | I. & G. N. Ry. Co. | 2 11 |
| | 4456 | Expense | W. C. Boyett, P. M. | 2 00 |
| | 4457 | Expense | W. C. Boyett, P. M. | 2 00 |
| | 4458 | Expense | W. F. Express Co. | 2 63 |
| | 4459 | Expense | Pacific Express Co. | 1 25 |
| | Expended | | | \$8738 80 |
| | By receipts from all sources | | | \$9368 52 |
| | Balance on hand | | | \$629 72 |
| | | | | \$9368 52 |
| | | | | \$9368 52 |

TREASURY ACCOUNT.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|----------------|-------------|------------------------|-----------------------------------|---------|
| Sept. 30, 1902 | 25 | Salary | J. W. Carson..... | 83 33 |
| | 26 | Salary | W. W. Smith..... | 43 33 |
| Oct. 7, 1902 | 57 | Repairs | C. L. & Theo. Berring..... | 87 00 |
| | 58 | Repairs | Cole Brothers..... | 80 |
| | 59 | Repairs | Garth, Howell & Webb..... | 46 86 |
| | 60 | Repairs | W. L. Macater & Son..... | 12 00 |
| | 61 | Repairs | Waco Electric Supply Co..... | 36 26 |
| | 62 | Repairs | J. A. Myres..... | 17 25 |
| | 63 | Repairs | T. Haswell..... | 5 25 |
| | 64 | Insurance | H. C. Robinson..... | 77 60 |
| | 65 | Farm | I. G. McGee..... | 34 50 |
| | 66 | Farm | McCormick Harvesting Co..... | 9 84 |
| | 67 | Farm | Stevenson Mach. & Rep. Co..... | 3 00 |
| | 68 | Farm | A. C. Harder & Co..... | 7 50 |
| | 69 | Farm | Cole Brothers..... | 3 65 |
| | 70 | Farm | Wilson & Junkin..... | 2 10 |
| | 71 | Farm | Henry & Brogden..... | 47 55 |
| Oct. 15, 1902 | 211 | Expense | Bryan Eagle..... | 7 00 |
| | 212 | Expense | W. U. Telegraph Co..... | 9 10 |
| | 213 | Expense | S. W. Tel. & Tel. Co..... | 6 95 |
| | 214 | Repairs | J. A. Myres..... | 2 95 |
| | 215 | Repairs | T. Haswell..... | 60 48 |
| | 216 | Rules and regulations | Bryan Eagle..... | 65 95 |
| Oct. 20, 1902 | 234 | Repairs | J. A. Myres..... | 31 65 |
| | 235 | Repairs | J. A. Myres..... | 1 60 |
| | 236 | Farm | A. D. McConnico..... | 50 25 |
| | 237 | Printing | Bryan Eagle..... | 6 00 |
| | 238 | Expense | S. W. Tel. & Tel. Co..... | 1 25 |
| | 239 | Expense | Ben S. Read..... | 1 05 |
| | 327 | Farmers Congress..... | Farmers Congress..... | 247 63 |
| | 328 | Farm | J. A. Simmons et al..... | 31 95 |
| | 329 | Farm | L. Murray..... | 1 25 |
| | 330 | Farm | W. M. Carroll et al..... | 10 00 |
| | 331 | Farm | W. M. Carroll et al..... | 10 50 |
| | 332 | Farm | H. G. Youngblood..... | 191 50 |
| | 333 | Farm | A. Smoot et al..... | 103 00 |
| | 334 | Farm | L. Bittle..... | 60 00 |
| | 335 | Farm | J. H. Suber..... | 7 42 |
| | 336 | Cattle | First National Bank Alvarado..... | 1 35 |
| | 337 | Building and repairs.. | C. H. Page..... | 78 30 |
| | 338 | Building and repairs.. | Tom Hudson..... | 22 50 |
| | 339 | Building and repairs.. | H. & T. C. Ry. Co..... | 12 12 |
| | 340 | Building and repairs.. | H. & T. C. Ry. Co..... | 3 63 |
| | 341 | Expense | W. U. Telegraph Co..... | 90 |
| | 342 | Salary | W. W. Smith..... | 21 67 |
| | 343 | Salary | Wm. Finley..... | 40 00 |
| | 436 | Building and repairs.. | T. H. Rowe..... | 13 00 |
| Oct. 30, 1902 | 489 | Salary | J. W. Carson..... | 83 33 |
| | 490 | Salary | W. W. Smith..... | 65 00 |
| Nov. 11, 1902 | 531 | Building and repairs.. | John Buada..... | 494 75 |
| | 549 | Expenses | Bryan Eagle..... | 43 00 |
| | 642 | Farm | Moore & Dyer..... | 322 50 |
| | 643 | Farm | A. Smoot et al..... | 109 00 |
| | 644 | Farm | H. G. Youngblood et al..... | 136 50 |
| | 645 | Farm | J. A. Simmons..... | 20 35 |
| | 646 | Catalogues | W. C. Boyett, P. M..... | 5 00 |
| Nov. 27, 1902 | 764 | Building and repairs.. | Garth, Howell & Webb..... | 95 69 |
| | 765 | Building and repairs.. | Garth, Howell & Webb..... | 2 10 |
| | 766 | Building and repairs.. | Garth, Howell & Webb..... | 104 76 |
| | 767 | Building and repairs.. | J. A. Myres..... | 29 30 |
| | 768 | Building and repairs.. | Waco Electric Supply Co..... | 30 42 |
| Nov. 30, 1902 | 818 | Salary | J. W. Carson..... | 83 33 |
| | 819 | Salary | W. W. Smith..... | 65 00 |
| Dec. 10, 1902 | 872 | Farm | R. F. Smith..... | 22 35 |
| | 873 | Farm cattle | J. W. Carson (expense acct.)..... | 246 80 |
| | 874 | Farm cattle | H. G. Youngblood et al..... | 128 80 |
| | 875 | Farm cattle | A. Smith et al..... | 155 00 |
| | 876 | Building and repairs.. | H. & T. C. Ry. Co..... | 38 |
| | 877 | Building and repairs.. | H. & T. C. Ry. Co..... | 39 |
| | 878 | Building and repairs.. | A. E. Withers..... | 50 00 |
| | 879 | Building and repairs.. | A. E. Withers..... | 34 46 |
| | 880 | Building and repairs.. | J. Adams..... | 9 65 |
| | 881 | Building and repairs.. | J. Adams et al..... | 38 00 |
| | 882 | Building and repairs.. | Error corrected..... | 35 90 |
| | 883 | Building and repairs.. | M. R. Kelley..... | 60 00 |

TREASURY ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-----------------------|-----------------------------|---------|
| | 884 | Building and repairs. | J. W. Kristler | 71 90 |
| | 885 | Building and repairs. | I. & G. N. Ry. Co. | 36 |
| Dec. 15, 1902 | 1023 | Building and repairs. | J. L. Harrison | 12 25 |
| | 1024 | Building and repairs. | Garth, Howell & Webb | 4 60 |
| | 1025 | Building and repairs. | Robinson | 10 00 |
| Dec. 30, 1902 | 1109 | Building and repairs. | W. W. Smith | 7 15 |
| | 1110 | Expenses | H. & T. C. Ry Co. | 2 02 |
| | 1201 | Salary | J. W. Carson | 83 33 |
| | 1202 | Salary | W. W. Smith | 65 00 |
| Jan. 2, 1903 | 1227 | Farm | W. C. Boyett | 96 55 |
| | 1228 | Farm | J. H. Suber | 6 75 |
| Jan. 12, 1903 | 1363 | Farm | Schlitz Brewing Co | 1 10 |
| | 1364 | Farm | T. H. Thompson Co | 12 50 |
| | 1365 | Farm | Ben S. Read | 6 10 |
| | 1366 | Farm | J. A. Myers | 134 38 |
| | 1367 | Farm | Stephenson M. & R. Co. | 4 50 |
| | 1368 | S. C. printing | Bryan Eagle | 32 55 |
| | 1369 | Catalogues | Von Boeckmann S. & Co. | 9 69 |
| | 1370 | Advertising | Texas Fruit & Truck Journal | 4 22 |
| | 1371 | Advertising | Texas Stockman & Farmer | 5 60 |
| | 1372 | Expenses | J. F. Harroway | 1 00 |
| | 1373 | Expenses | Battalion A. M. C. | 6 00 |
| | 1374 | Expenses | Battalion A. M. C. | 40 00 |
| | 1375 | Building and repairs. | Nalle & Co. | 22 00 |
| | 1376 | Building and repairs. | F. H. Kessler & Co. | 30 75 |
| | 1377 | Building and repairs. | J. W. Kristler | 108 85 |
| | 1378 | Building and repairs. | H. & T. C. Ry. Co. | 1 35 |
| | 1379 | Farm (cattle) | J. W. Carson (exp.) | 69 15 |
| | 1380 | Labor | W. J. Andrews | 7 50 |
| | 1381 | Labor | A. Smoot et al. | 141 00 |
| | 1382 | Labor | H. G. Youngblood et al. | 96 00 |
| | 1502 | Farm | E. C. Harder & Co. | 127 65 |
| | 1503 | Farm | Webb Bros | 2 76 |
| | 1504 | Farm | Dansby & D. | 1 35 |
| | 1505 | Building and repairs. | C. L. & Theo. Berring | 8 75 |
| | 1506 | Building and repairs. | Garth, Howell & Webb | 13 09 |
| | 1507 | Building and repairs. | J. A. Myers | 5 37 |
| Feb. 10, 1903 | 1671 | Farm | Bryan Cotton Oil Co. | 887 29 |
| | 1672 | Building and repairs. | Willen Mfg. Co. | 40 00 |
| | 1753 | Bond | J. G. Harrison | 60 00 |
| | 1754 | Bond | M. R. Kelley | 48 00 |
| | 1755 | Farm | Brazoria River Farm Co | 28 00 |
| | 1756 | Farm | D. A. Hartman | 10 25 |
| | 1757 | Farm | Youngblood et al. | 156 85 |
| | 1758 | Farm | A. Smoot et al. | 138 00 |
| | 1759 | Farm | W. C. Boyett | 2 50 |
| | 1760 | Building and repairs. | M. R. Kelley | 39 30 |
| | 1761 | Building and repairs. | J. H. Gammon | 6 85 |
| | 1762 | Building and repairs. | J. A. Adams | 7 00 |
| | 1763 | Building and repairs. | J. A. Adams | 9 65 |
| | 1764 | Building and repairs. | J. A. Adams | 4 37 |
| | 1765 | Building and repairs. | W. F. Wallace | 2 50 |
| | 1766 | Farm | H. & T. C. Ry. Co. | 3 27 |
| Feb. 25, 1903 | 1907 | Farm | W. O. Sanders & Co. | 247 84 |
| Feb. 28, 1903 | 1944 | Salary | J. W. Carson | 83 33 |
| | 1945 | Salary | W. W. Smith | 65 00 |
| | 1946 | Salary | J. G. Harrison | 25 00 |
| | 1947 | Salary | Sam Harlan | 50 00 |
| Mch. 2, 1903 | 1983 | Building and repairs. | J. A. Myers | 1 80 |
| | 1984 | Building and repairs. | Mosher Mfg. Co. | 7 85 |
| | 1985 | Building and repairs. | T. Haswell | 14 30 |
| | 1986 | Printing | Bryan Eagle | 5 30 |
| | 1987 | Expense | W. P. Oil Co. | 7 83 |
| Mch. 12, 1903 | 2116 | Building and repairs. | H. & T. C. Ry. Co. | 75 |
| | 2117 | Building and repairs. | M. R. Kelley | 60 00 |
| | 2118 | Farm | D. A. Hartman | 3 75 |
| | 2119 | Farm | H. G. Youngblood et al. | 152 00 |
| | 2120 | Farm | A. Smoot et al. | 144 00 |
| Mch. 19, 1903 | 2203 | Repairs | Garth, Howell & Webb | 9 08 |
| | 2204 | Repairs | J. A. Myers | 11 27 |
| | 2205 | Expense | W. P. Oil Co. | 7 98 |
| | 2206 | Catalogues | J. L. Johnson | 143 19 |
| Mch. 30, 1903 | 2257 | Salary | J. W. Carson | 83 33 |
| | 2258 | Salary | W. W. Smith | 65 00 |
| | 2259 | Salary | J. G. Harrison | 25 00 |

TREASURY ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|----------------|-------------|------------------------|-------------------------------|---------|
| April 15, 1903 | 2260 | Salary | Sam Harlan..... | 100 00 |
| | 2323 | Farm | G. C. Street & Co..... | 246 00 |
| | 2324 | Farm | Keating Imp. Co..... | 3 80 |
| | 2325 | Farm | Texas Seed & Floral Co..... | 2 35 |
| | 2326 | Farm | E. C. Harder & Co..... | 13 60 |
| | 2327 | Farm | J. T. Hanway..... | 37 20 |
| | 2328 | Farm | I. G. McGee..... | 48 15 |
| | 2329 | Farm | Henry & Brogden..... | 33 65 |
| | 2330 | Farm | D. A. Hartman..... | 5 35 |
| | 2331 | Farm | Dansby & Dansby..... | 1 80 |
| | 2332 | Farm | Bryan Cotton Oil Co..... | 474 80 |
| | 2333 | Farm | W. O. Saunders & Co..... | 29 38 |
| | 2334 | Farm | S. W. Tel. & Tel. Co..... | 2 00 |
| | 2335 | Farm | McDuff Simpson..... | 3 15 |
| | 2336 | Farm | Garth, Howell & Webb..... | 28 35 |
| | 2337 | Farm | Garth, Howell & Webb..... | 52 83 |
| | 2338 | Farm | Garth, Howell & Webb..... | 8 64 |
| | 2405 | Ordinance | H. & T. C. Ry. Co..... | 55 81 |
| | 2475 | Farm | H. & T. C. Ry. Co..... | 72 |
| | 2476 | Farm | H. & T. C. Ry. Co..... | 42 00 |
| | 2477 | Farm | A. Smoot et al..... | 144 00 |
| | 2478 | Farm | H. G. Youngblood et al..... | 125 10 |
| | 2479 | Farm | J. Grigg..... | 17 00 |
| | 2480 | Catalogues | W. F. Express Co..... | 25 |
| | 2481 | Building and repairs.. | J. T. Adams..... | 7 00 |
| | 2482 | Salary | M. R. Kelley..... | 60 00 |
| April 30, 1903 | 2553 | Expense, postage | W. C. Boyett..... | 127 20 |
| | 2692 | Salary | J. W. Carson..... | 83 33 |
| | 2693 | Salary | W. W. Smith..... | 65 00 |
| | 2694 | Salary | J. G. Harrison..... | 25 00 |
| May 15, 1903 | 2695 | Salary | Sam Harlan..... | 100 00 |
| | 2737 | Farm | I. & G. N. Ry. Co. (Car Com.) | 139 55 |
| | 2738 | Farm | First National Bank..... | 159 65 |
| | 2749 | Farm | J. C. Street..... | 51 58 |
| May 22, 1903 | 2750 | Expense | Clarke & Courts..... | 13 75 |
| | 2751 | Expense | Clarke & Courts..... | 3 00 |
| | 2752 | Expense | S. W. Tel. Co..... | 70 |
| | 2753 | Expense | W. U. Tel. Co..... | 1 10 |
| | 2754 | Expense | Austin Book & Stationery Co.. | 1 00 |
| | 2755 | Expense | Geo. F. Lasher..... | 2 00 |
| | 2756 | Expense | S. W. Tel. Co..... | 3 10 |
| | 2757 | Expense | Austin Book & Stationery Co.. | 13 60 |
| | 2758 | Printing | Bryan Eagle..... | 11 75 |
| | 2805 | Printing | Clarke & Courts..... | 5 50 |
| | 2806 | Printing | Bryan Eagle..... | 16 25 |
| | 2807 | Farm | Brenham Camp Co..... | 132 00 |
| | 2870 | Salary | W. W. Smith..... | 10 00 |
| | 2871 | Wages | W. Findley..... | 40 00 |
| | 2872 | Wages | F. Post..... | 40 00 |
| | 2873 | Wages | F. Post..... | 26 67 |
| | 2874 | Wages | M. R. Kelley..... | 60 00 |
| | 2875 | Wages | W. Finley..... | 40 00 |
| | 2876 | Farm | I. & G. N. Ry. Co..... | 17 75 |
| | 2877 | Farm | H. & T. C. Ry. Co..... | 18 00 |
| May 30, 1903 | 2878 | Farm | W. J. Andrews et al..... | 52 75 |
| | 2879 | Farm | H. G. Youngblood et al..... | 186 25 |
| | 2880 | Expense | W. C. Boyett (postage)..... | 73 45 |
| | 2940 | Ordinance | I. & G. N. Ry. Co..... | 5 25 |
| | 2941 | Farm | A. Smoot et al..... | 148 50 |
| | 3032 | Salary | J. W. Carson..... | 83 33 |
| | 3023 | Salary | J. F. Copeland..... | 75 00 |
| | 3024 | Salary | J. G. Harrison..... | 25 00 |
| | 3025 | Salary | Sam Harlan..... | 100 00 |
| | 3120 | Farm | W. B. Grice..... | 4 00 |
| June 10, 1903 | 3121 | Expenses | W. P. Oil Co..... | 9 34 |
| | 3122 | Expenses | Clarke & Courts..... | 15 00 |
| | 3235 | Farm | G. H. Youngblood..... | 152 20 |
| | 3236 | Farm | A. Smoot et al..... | 144 00 |
| | 3237 | Farm | W. M. Caldwell..... | 25 00 |
| | 3238 | Wages | M. R. Kelley..... | 60 00 |
| | 3239 | Expenses | Charles Puryear..... | 12 50 |
| | 3240 | Com. sermon | G. H. Kinsolving..... | 25 00 |
| | 3283 | Expense | W. M. Pub. Co..... | 1 00 |
| | 3284 | Printing | Bryan Eagle..... | 37 60 |
| | 3285 | Ordinance | Chief of ordnance..... | 46 06 |

TREASURY ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-------------------------|-----------------------------------|---------|
| | 3286 | Catalogue | Von Boeckmann-Jones & Co... | 126 81 |
| | 3344 | Ordinance | H. & T. C. Ry. Co. | 11 35 |
| | 3345 | Ordinance | I. & G. N. Ry. Co. | 16 02 |
| June 30, 1903 | 3346 | Wages | W. Finley | 40 00 |
| | 3365 | Salary | J. W. Carson | 83 33 |
| | 3366 | Salary | J. R. Clough | 75 00 |
| | 3367 | Salary | J. G. Harrison | 25 00 |
| | 3368 | Salary | S. Harlan | 100 00 |
| | 3387 | Postage | W. C. Boyett, P. M. | 122 75 |
| | 3408 | Farm | H. G. Youngblood et al. | 134 50 |
| | 3409 | Farm | A. Smoot et al. | 121 10 |
| | 3410 | Farm | S. G. Buchman | 15 50 |
| | 3411 | Catalogues | H. & T. C. Ry. Co. | 10 03 |
| | 3412 | Catalogues | H. & T. C. Ry. Co. | 2 00 |
| | 3413 | Wages | T. W. Post | 33 33 |
| | 3414 | Wages | W. Finley | 36 00 |
| | 3415 | Wages | M. R. Kelley | 60 00 |
| July 10, 1903 | 3449 | Printing | Brazos Pilot | 2 50 |
| | 3450 | Printing | Bryan Eagle | 8 35 |
| | 3451 | Printing | Void | |
| | 3452 | Expense | F. W. Heitman Co. | 11 82 |
| July 16, 1903 | 3492 | Expense | Garth, Howell & Webb | 2 00 |
| | 3493 | Expense | Clarke & Courts | 17 50 |
| | 3527 | Farm | D. A. Hartman | 13 70 |
| July 22, 1903 | 3534 | Farmers Congress | Steam P. Dept. Ice, A. M. C. | 59 55 |
| | 3535 | Farmers Congress | Steam P. Dept. Ice, A. M. C. | 4 75 |
| | 3536 | Farmers Congress | Farm Department | 117 25 |
| | 3537 | Farmers Congress | Horticulture Department | 24 11 |
| | 3538 | Farmers Congress | Garth, Howell & Webb | 9 37 |
| | 3539 | Farmers Congress | J. A. Myers | 75 |
| | 3540 | Farmers Congress | J. A. Myers | 9 00 |
| | 3541 | Farmers Congress | Void (Franklin Bros.) | |
| July 30, 1903 | 3563 | Salary | J. W. Carson | 83 33 |
| | 3564 | Salary | J. R. Clough | 75 00 |
| | 3565 | Salary | J. G. Harrison | 25 00 |
| | 3566 | Salary | Sam Harlan | 100 00 |
| | 3586 | Wood | J. H. Suber | 170 75 |
| | 3587 | Farmers Congress | Franklin Bros. | 11 90 |
| Aug. 1, 1903 | 3603 | Catalogues | S. W. Tel. Co. | 50 |
| | 3604 | Laundry Machinery | Troy Laundry Machine Co. | 25 00 |
| | 3605 | Insurance | H. C. Robinson | 93 35 |
| | 3606 | Farmers Congress | T. Haswell | 3 25 |
| | 3607 | Farmers Congress | H. & T. C. Ry. Co. | 87 |
| | 3608 | Farmers Congress | J. A. Myers | 12 40 |
| | 3609 | Farmers Congress | W. J. Carter | 3 90 |
| | 3620 | Farmers Congress | J. G. Harrison et al. | 5 90 |
| | 3621 | Farmers Congress | S. W. Tel. Co. | 60 |
| | 3622 | Farmers Congress | Pacific Express Co. | 95 |
| | 3623 | Ordinance | I. & G. N. Ry. Co. | 4 27 |
| | 3624 | Farm | W. F. Express Co. | 40 |
| | 3625 | Wages | M. R. Kelley | 60 00 |
| Aug. 6, 1903 | 3661 | Expense | R. H. Forbes | 42 70 |
| Aug. 15, 1903 | 3675 | Farmers Congress | Clarke & Fountain | 19 20 |
| | 3676 | Farmers Congress | Fleischman & Co. | 1 00 |
| | 3677 | Farmers Congress | S. W. Tel. Co. | 1 60 |
| | 3678 | Farmers Congress | Bryan Eagle | 2 50 |
| | 3679 | Farmers Congress | R. Finley | 2 00 |
| | 3680 | Expense | S. W. Tel. Co. | 1 90 |
| | 3681 | Expense | W. U. Tel. Co. | 4 00 |
| | 3682 | Printing | Bryan Eagle | 8 75 |
| Aug. 25, 1903 | 3704 | Expense | Clarke & Courts | 3 00 |
| | 3705 | Expense | Clarke & Courts | 3 85 |
| Aug. 30, 1903 | 3742 | Salary | J. W. Carson | 83 33 |
| | 3742 | Salary | J. R. Clough | 75 00 |
| | 3744 | Salary | J. G. Harrison | 25 00 |
| | 3745 | Salary | Sam Harlan | 100 00 |
| | 3776 | Postage | J. A. Myers, P. M. | 10 00 |
| | 3777 | Farmers Congress | W. U. Telegraph Co. | 39 |
| | 3778 | Farmers Congress | S. W. Tel. Co. | 50 |
| | 3779 | Repairs | W. D. Gibbs | 8 45 |
| | 3780 | Expense | W. U. Telegraph Co. | 35 |
| | 3781 | Farm | A. Smoot et al. | 115 00 |
| | 3782 | Farm | H. G. Youngblood et al. | 137 75 |
| Aug. 31, 1903 | 3810 | Farm | A. Smoot et al. | 117 50 |
| | 3811 | Farm | H. G. Youngblood et al. | 142 20 |

TREASURY ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|----------------|-------------|-------------------------|------------------------------|---------|
| | 3812 | Farm | I. & G. N. Ry. Co..... | 1 35 |
| | 3813 | Wages | M. R. Kelly..... | 60 00 |
| | 3814 | Wages | F. Post..... | 40 00 |
| Sept. 5, 1903 | 3843 | Farmers Congress..... | Mrs. Otto Boehm..... | 8 85 |
| | 58 | Farmers Congress..... | J. A. Myers..... | 2 20 |
| | 59 | Expense | Clarke & Courts..... | 4 25 |
| | 60 | Farm Off. Supplies..... | Bryan Eagle..... | 4 00 |
| | 61 | Farm | Ben S. Read..... | 7 50 |
| | 62 | Farm | W. C. Boyett..... | 2 65 |
| | 63 | Farm | McCormick Hardware Co..... | 3 33 |
| | 64 | Farm | H. & T. C. Ry. Co..... | 25 |
| | 65 | Farm | J. Stickler Seed Co..... | 33 85 |
| | 66 | Farm | Henry & Brogden..... | 70 80 |
| | 67 | Farm | E. C. Harder & Co..... | 186 00 |
| Sept. 14, 1903 | 107 | Farm | S. W. Tel. Co..... | 2 10 |
| Sept. 30, 1903 | 230 | Ordinance | H. & T. C. Ry. Co..... | 2 24 |
| | 231 | Farm | C. Buchanan et al..... | 34 50 |
| | 232 | Farm | B. H. Spawn..... | 6 00 |
| | 233 | Farm | D. A. Hartman..... | 7 70 |
| | 234 | Farm | Dan Jackson..... | 24 00 |
| | 235 | Farm | W. M. Carroll..... | 22 00 |
| | 236 | Farm | W. M. Carroll et al..... | 34 85 |
| Oct. 6, 1903 | 333 | Repairs | J. A. Myers..... | 6 00 |
| Oct. 10, 1903 | 334 | Advertising | Farm and Ranch..... | 100 00 |
| | 526 | Farm | H. Youngblood et al..... | 104 50 |
| | 527 | Farm | Smoot et al..... | 115 00 |
| Oct. 21, 1903 | 586 | Ordinance | I. & G. N. Ry. Co..... | 40 00 |
| | 829 | Farm | H. G. Youngblood et al..... | 102 60 |
| | 830 | Farm | A. Smoot et al..... | 109 70 |
| | 831 | Farm | J. H. Suber..... | 11 46 |
| | 832 | Farm | N. F. Carson's children..... | 31 20 |
| | 833 | Farm | N. F. Carson's children..... | 9 10 |
| | 834 | Farm | Dan Jackson's boys..... | 3 10 |
| | 835 | Farm | John Wilson et al..... | 19 00 |
| | 836 | Farm | C. E. Brunson..... | 22 55 |
| | 837 | Farm | A. Harrison et al..... | 24 50 |
| | 838 | Mules | H. & T. C. Ry. Co..... | 38 00 |
| | 943 | Mules | Cook & Simmons..... | 640 00 |
| Dec. 5, 1903 | 945 | Prem. | Lenoir Hunt..... | 60 00 |
| Dec. 17, 1903 | 1147 | Farm | Garth, Howell & Webb..... | 11 75 |
| | 1444 | Farm | Stevenson Machine Co..... | 27 35 |
| | 1445 | Farm | Cole Hardware Co..... | 3 20 |
| | 1446 | Farm | B. S. Read..... | 2 10 |
| | 1447 | Farm | Henry & Brandon..... | 92 00 |
| | 1448 | Farm | E. C. Harder & Co..... | 59 90 |
| | 1449 | Farm | Webb Bros..... | 2 60 |
| | 1450 | Farm | Parke, Davis & Co..... | 5 64 |
| | 1451 | Farm | A. B. Grice..... | 2 50 |
| | 1452 | Farm | C. C. Calhoun..... | 50 |
| | 1453 | Farm | Dansby & Dansby..... | 1 05 |
| Dec. 19, 1903 | 1454 | Farm | Howell Bros..... | 141 40 |
| | 1536 | Farm | A. Harrison et al..... | 17 50 |
| | 1537 | Farm | A. E. Withers..... | 10 00 |
| Jan. 9, 1904 | 1709 | Ordinance | H. C. Robinson..... | 10 00 |
| Jan. 12, 1904 | 1710 | Ordinance | Merchants Transfer Co..... | 3 00 |
| | 1782 | Farm | H. G. Youngblood et al..... | 158 75 |
| | 1783 | Farm | A. Smoot et al..... | 146 00 |
| | 1784 | Farm | J. M. Atkins..... | 2 50 |
| | 1785 | Farm | H. & T. C. Ry. Co..... | 50 05 |
| Jan. 22, 1904 | 1873 | Farm | H. P. Stacy..... | 150 00 |
| | 1922 | Farm | Bryan Cotton Oil Co..... | 850 12 |
| Feb. 1, 1904 | 2051 | Farm | H. & T. C. Ry. Co..... | 50 05 |
| | 2052 | Farm | W. J. De Hart et al..... | 12 30 |
| | 2053 | Farm | W. J. De Hart et al..... | 12 65 |
| | 2054 | Farm | A. Ramsey..... | 1 00 |
| | 2055 | Farm | A. J. Murry..... | 2 70 |
| | 2056 | Farm | A. C. Jackson..... | 2 25 |
| Feb. 9, 1904 | 2266 | Farm | C. A. Carson et al..... | 122 50 |
| | 2267 | Farm | A. Smoot et al..... | 144 00 |
| | 2268 | Farm | J. A. Simmons et al..... | 5 70 |
| | 2309 | Farm | J. A. Moore, Jr..... | 50 25 |
| Feb. 20, 1904 | 2360 | Farm | Garth, Howell & Webb..... | 2 50 |
| Feb. 27, 1904 | 2521 | Farm | H. & T. C. Ry. Co..... | 56 |
| | 2522 | Farm | S. H. De Hart..... | 5 50 |
| | 2523 | Farm | S. H. De Hart et al..... | 14 40 |

TREASURY ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|----------------|-------------|--------------------|------------------------------|---------|
| | 2524 | Farm | W. F. Express Co..... | 55 |
| | 2525 | Farm | Pacific Express Co..... | 3 90 |
| | 2526 | Farm | J. E. Fisk..... | 26 50 |
| | 2527 | Farm | J. A. Dowling..... | 13 62 |
| Mch. 1, 1904 | 2586 | Farm | Bryan Eagle..... | 21 75 |
| | 2587 | Farm | Texas Seed & Floral Co..... | 7 45 |
| | 2588 | Farm | J. A. Myers..... | 1 95 |
| | 2589 | Farm | D. A. Horstman..... | 3 05 |
| Mch. 9, 1904 | 2675 | Farm | A. H. Royal et al..... | 9 00 |
| | 2676 | Farm | W. M. Carroll..... | 6 50 |
| | 2677 | Farm | A. Smoot..... | 45 00 |
| | 2678 | Farm | M. Sharpe..... | 32 00 |
| | 2679 | Farm | J. Ramsey..... | 32 00 |
| Mch. 17, 1904 | 2715 | Farm | Houston Rice Milling Co..... | 120 00 |
| | 2716 | Farm | J. A. Myers..... | 152 25 |
| | 2718 | Farm | R. W. Gamble & Co..... | 85 07 |
| | 2790 | Farm | R. W. Gamble & Co..... | 497 55 |
| Mch. 24, 1904 | 2795 | Farm | R. W. Gamble & Co..... | 500 85 |
| | 2796 | Farm | Bryan Cotton Oil Co..... | 360 00 |
| Mch. 28, 1904 | 2826 | Farm | Howell Bros..... | 183 46 |
| | 2827 | Farm | Garth, Howell & Webb..... | 7 55 |
| | 2828 | Farm | Garth, Howell & Webb..... | 3 20 |
| | 2829 | Farm | C. H. Dana..... | 16 95 |
| | 2830 | Farm | R. L. Bennett..... | 3 01 |
| | 2831 | Farm | R. L. Bennett..... | 3 53 |
| | 2832 | Farm | F. L. Eubank et al..... | 9 57 |
| | 2833 | Farm | H. G. Youngblood et al..... | 142 10 |
| | 2834 | Farm | F. R. Marshall..... | 39 |
| | 2835 | Farm | F. R. Marshall..... | 56 |
| | 2836 | Farm | H. & T. C. Ry. Co..... | 13 10 |
| | 2837 | Farm | H. & T. C. Ry. Co..... | 25 57 |
| | 2838 | Farm | J. Foster et al..... | 33 50 |
| | 2839 | Farm | W. U. Telegraph Co..... | 25 |
| | 2840 | Farm | I. & G. N. Ry. Co..... | 23 40 |
| | 2841 | Farm | I. & G. N. Ry. Co..... | 23 00 |
| | 2842 | Farm | I. & G. N. Ry. Co..... | 42 50 |
| | 2843 | Farm | I. & G. N. Ry. Co..... | 1 10 |
| April 6, 1904 | 2986 | Farm | D. A. Hartman..... | 14 65 |
| | 2971 | Farm | E. C. Harder & Co..... | 406 90 |
| | 2987 | Farm | Garth, Howell & Webb..... | 4 00 |
| | 2988 | Farm | W. B. Grice..... | 8 50 |
| | 2989 | Farm | City National Bank..... | 1 25 |
| | 2990 | Farm | R. L. Bennett..... | 2 95 |
| | 2991 | Farm | J. Foster et al..... | 40 20 |
| | 2992 | Farm | H. G. Youngblood et al..... | 193 40 |
| April 12, 1904 | 3110 | Farm | Bryan Cotton Oil Co..... | 255 50 |
| | 3111 | Farm | W. C. Boyett..... | 2 45 |
| | 3112 | Farm | W. C. Boyett..... | 60 |
| | 3113 | Farm | D. A. Hartman..... | 11 20 |
| | 3114 | Farm | Keating Implement Co..... | 75 |
| | 3115 | Farm | Keating Implement Co..... | 6 00 |
| | 3116 | Farm | E. C. Harder & Co..... | 19 25 |
| | 3117 | Farm | E. C. Harder & Co..... | 52 75 |
| | 3118 | Farm | R. L. Bennett..... | 5 24 |
| | 3119 | Farm | J. Foster et al..... | 56 35 |
| | 3120 | Farm | H. & T. C. Ry. Co..... | 18 55 |
| | 3121 | Farm | W. F. Express Co..... | 21 00 |
| | 3122 | Farm | I. & G. N. Ry. Co..... | 2 64 |
| | 3123 | Farm | T. F. Carson..... | 4 50 |
| | 3124 | Farm | An. Poland China Record..... | 3 00 |
| April 22, 1904 | 3286 | Farm | R. W. Gamble & Co..... | 81 60 |
| April 28, 1904 | 3287 | Farm | J. A. Myers..... | 4 85 |
| | 3288 | Farm | J. A. Myers..... | 1 75 |
| | 3289 | Farm | J. A. Myers..... | 50 |
| | 3290 | Farm | Garth, Howell & Webb..... | 1 76 |
| | 3292 | Farm | W. B. Grice..... | 1 05 |
| April 30, 1904 | 3493 | Farm | R. W. Gamble & Co..... | 34 46 |
| | 3494 | Farm | H. & T. C. Ry. Co..... | 27 66 |
| | 3495 | Farm | A. Smoot et al..... | 124 50 |
| | 3496 | Farm | I. & G. N. Ry. Co..... | 17 00 |
| | 3497 | Ordinance | H. & T. C. Ry. Co..... | 5 43 |
| May 10, 1904 | 3589 | Farm | A. Smoot et al..... | 140 50 |
| | 3590 | Farm | J. Foster et al..... | 2 00 |
| | 3591 | Farm | H. G. Youngblood et al..... | 194 75 |
| | 3592 | Farm | J. A. Simmons et al..... | 13 50 |

TREASURY ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|------------------------------------|-------------|--------------------|--------------------------------|-------------|
| | 3593 | Farm | I. & G. N. Ry. Co..... | 1 70 |
| May 15, 1904 | 3631 | Farm | E. C. Harder & Co..... | 19 00 |
| June 1, 1904 | 3754 | Farm | T. W. Wood & Sons..... | 35 10 |
| | 3755 | Farm | D. A. Hartman..... | 3 00 |
| | 3756 | Farm | P. C. Grice..... | 1 35 |
| | 3757 | Farm | P. Carson..... | 13 00 |
| | 3758 | Farm | T. H. Thompson Milling Co..... | 143 00 |
| | 3759 | Farm | E. C. Harder & Co..... | 9 00 |
| | 3760 | Farm | Howell Bros..... | 25 56 |
| June 6, 1904 | 3816 | Farm | Robert Andrews et al..... | 21 00 |
| | 3817 | Farm | J. Foster et al..... | 17 50 |
| | 3818 | Farm | J. Foster et al..... | 49 00 |
| | 3819 | Farm | W. F. Express Co..... | 45 |
| | 3856 | Farm | R. W. Gamble & Co..... | 644 29 |
| June 11, 1904 | 3932 | Farm | I. & G. N. Ry. Co..... | 19 97 |
| | 3933 | Farm | H. & T. C. Ry. Co..... | 54 08 |
| | 3934 | Farm | A. Smoot et al..... | 107 50 |
| | 3935 | Farm | H. G. Youngblood et al..... | 133 75 |
| | 3936 | Farm | Texas Seed & Floral Co..... | 13 25 |
| | 3937 | Farm | W. F. Express Co..... | 35 |
| June 15, 1904 | 3982 | Farm | W. B. Thomas et al..... | 42 50 |
| June 20, 1904 | 4019 | Farm | B. Carson et al..... | 29 40 |
| | 4020 | Farm | J. Foster et al..... | 29 50 |
| | 4021 | Farm | J. Foster et al..... | 26 00 |
| | 4022 | Farm | C. B. Baker et al..... | 20 00 |
| | 4023 | Farm | G. W. Buchanan et al..... | 12 00 |
| | 4024 | Farm | H. & T. C. Ry. Co..... | 54 08 |
| July 6, 1904 | 4168 | Farm | S. W. Tel. Co..... | 2 00 |
| | 4169 | Farm | Ben S. Read..... | 50 |
| July 9, 1904 | 4186 | Farm | Youngblood et al..... | 35 50 |
| | 4187 | Farm | W. W. Matthews et al..... | 12 00 |
| | 4188 | Farm | C. L. Ayers et al..... | 81 50 |
| | 4189 | Farm | Youngblood et al..... | 84 65 |
| | 4190 | Farm | A. Smoot et al..... | 67 34 |
| | 4191 | Expense | D. F. Houston..... | 20 30 |
| | 4215 | Farm | E. Brown..... | 24 75 |
| July 30, 1904 | 4235 | Printing | State Board of Public Printing | 101 90 |
| | 4308 | Farm | J. B. Evans et al..... | 19 00 |
| | 4309 | Farm | J. B. Evans et al..... | 34 50 |
| | 4310 | Farm | J. B. Evans et al..... | 23 50 |
| | 4311 | Farm | J. B. Evans et al..... | 38 00 |
| | 4312 | Farm | I. & G. N. Ry. Co..... | 30 00 |
| | 4313 | Farm | F. R. Marshall..... | 68 |
| | 4314 | Farm | E. K. Brown..... | 13 64 |
| | 4315 | Farm | H. & T. C. Ry. Co..... | 84 24 |
| | 4316 | Farm | H. & T. C. Ry. Co..... | 25 45 |
| | 4317 | Farm | J. H. Suber..... | 2 00 |
| July 31, 1904 | 4365 | Farm | Youngblood et al..... | 101 05 |
| | 4366 | Farm | A. Smoot et al..... | 98 87 |
| Aug. 24, 1904 | 4388 | Farm | R. W. Gamble & Co..... | 69 89 |
| Aug. 31, 1904 | 4470 | Farm | S. Murray et al..... | 80 00 |
| | 4471 | Farm | A. Smoot et al..... | 131 50 |
| | 4472 | Farm | Fairbank M. & Co..... | 100 00 |
| | 4473 | Farm | S. J. Jackson et al..... | 11 50 |
| | 4474 | Farm | J. Atkins et al..... | 4 70 |
| | 4475 | Farm | J. B. Evans et al..... | 55 50 |
| | 4476 | Farm | John Ashton..... | 27 50 |
| | 4477 | Farm | S. J. Jackson et al..... | 6 00 |
| | 4478 | Farm | Youngblood et al..... | 50 00 |
| | 4479 | Farm | J. Foster et al..... | 114 00 |
| Expended | | | | \$26,390 89 |
| By receipts from all sources | | | | \$13,963 14 |
| By overcheck | | | | 12,427 75 |
| | | | | \$26,390 89 |
| | | | | \$26,390 89 |

EQUIPMENT ACCOUNT.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|----------------|-------------|--------------------------|-------------------------------|---------|
| Sept. 21, 1903 | 92 | Entomology | F. P. Avery | 5 50 |
| | 93 | Entomology | W. C. Boyett | 2 05 |
| | 94 | Entomology | R. Friedlander & Son | 12 50 |
| | 95 | Entomology | Paul Klincksick | 6 30 |
| | 96 | Entomology | A. Hermon | 2 80 |
| | 97 | Entomology | A. Schweizerhart | 5 00 |
| | 98 | Entomology | W. C. Lee | 7 61 |
| | 99 | Entomology | G. B. Carson | 51 11 |
| | 100 | Entomology | W. J. Gerhard | 22 98 |
| | 101 | Entomology | Snyder Ross Co. | 10 20 |
| | 102 | Entomology | C. L. & Theo. Berring | 13 70 |
| | 103 | Entomology | H. A. Hyatt | 2 35 |
| Sept. 22, 1903 | 126 | General | Am. Arithmometer Co. | 375 00 |
| Sept. 28, 1903 | 131 | Drawing | E. Dietzgen | 289 77 |
| | 132 | Drawing | Theo. Schmedekind | 287 50 |
| | 133 | General | E. Dietzger Co. | 150 00 |
| Sept. 30, 1903 | 266 | General | I. & G. N. Ry. Co. | 34 10 |
| | 267 | Entomology | E. D. Sanderson | 8 50 |
| Oct. 6, 1903 | 336 | Entomology | Rev. C. J. S. Bethume | 73 50 |
| | 337 | Entomology | Elliott Paper Co. | 6 75 |
| | 338 | Entomology | W. V. Slingerland | 34 20 |
| | 339 | Entomology | Clarke & Courts | 26 75 |
| | 340 | Entomology | Am. Dry Plate Co. | 9 91 |
| | 341 | Military | Distin Mfg. Co. | 575 00 |
| | 342 | General | J. L. Wortham | 236 64 |
| | 343 | Botany | J. J. Pastoriza & Co. | 90 00 |
| | 388 | Botany | T. Haswell | 29 00 |
| Oct. 9, 1903 | 543 | Entomology | G. H. Pittman | 5 27 |
| | 544 | Entomology | K. K. Koehlers | 31 80 |
| | 545 | Entomology | Dr. O. Standiger et al. | 43 00 |
| | 546 | Chemical | A. Stone Co. | 103 12 |
| | 547 | Chemical | T. Haswell | 4 00 |
| | 548 | Chemical | J. H. Gauter & Co. | 319 65 |
| | 549 | Mechanical Engin'r | S. L. Engine Co. | 5 90 |
| | 550 | Mechanical Engin'r | F. S. D. Duplicator Co. | 5 00 |
| Oct. 19, 1903 | 585 | Mechanical Engin'r | I. & G. N. Ry. Co. | 137 44 |
| Oct. 21, 1903 | 587 | General | T. Schmedekind | 300 00 |
| Oct. 23, 1903 | 588 | Chemical | T. H. Kessler & Co. | 800 00 |
| Oct. 30, 1903 | 617 | Physics and E. E. | L. Green & Co. | 5 22 |
| | 618 | M. E. | F. W. Heitman & Co. | 28 81 |
| | 619 | M. E. | J. V. Love | 3 40 |
| | 620 | M. E. | Buffalo Forge Co. | 778 56 |
| | 621 | Entomology | A. Root & Co. | 51 11 |
| | 622 | Entomology | F. Webber & Co. | 16 20 |
| | 623 | Entomology | Levy Bros. | 21 50 |
| | 624 | Entomology | Whithall, Tatum & Co. | 38 52 |
| | 625 | Entomology | Am. Entomological Co. | 35 21 |
| | 626 | Entomology | Cambridge Botl. Sup. Co. | 8 70 |
| | 627 | Entomology | J. A. Myers | 20 60 |
| | 628 | Entomology | Am. Entomological Co. | 174 10 |
| | 629 | Entomology | Bush & Lamb Optical Co. | 282 99 |
| Nov. 5, 1903 | 739 | M. E. | Repsdarp Tent & Awning Co | 32 84 |
| | 740 | M. E. | Nash, Robinson & Co. | 40 45 |
| | 741 | M. E. | G. S. Parker | 107 09 |
| | 742 | Entomology | Levy Bros. | 6 60 |
| | 743 | Entomology | J. Dorman | 12 35 |
| | 744 | Entomology | G. Birkmann | 5 50 |
| | 745 | Entomology | W. Junk | 6 10 |
| Nov. 5, 1903 | 794 | Chemical | W. . . Express Co. | 1 55 |
| | 795 | Chemical | Pacific Express Co. | 1 25 |
| | 796 | Chemical | W. U. Telegraph Co. | 49 |
| | 797 | Chemical | I. & G. N. Ry. Co. | 1 37 |
| | 798 | Chemical | H. & T. C. Ry. Co. | 2 06 |
| | 799 | Chemical | Pete Carson | 85 |
| | 800 | Chemical | I. & G. N. Ry. Co. | 20 25 |
| | 801 | Chemical | H. H. Harrington | 12 20 |
| | 802 | General | I. & G. N. Ry. Co. | 12 20 |
| | 803 | P. & E. E. | I. & G. N. Ry. Co. | 9 73 |
| | 804 | P. & E. E. | W. C. Boyett | 12 13 |
| | 805 | P. & E. E. | W. Gorzycki et al. | 50 00 |
| | 806 | Botany | W. F. Express Co. | 6 50 |
| | 807 | Botany | A. E. Withers | 15 00 |
| Nov. 20, 1903 | 892 | General | James Bute | 4 20 |
| | 893 | P. & E. E. | Baker & Taylor Co. | 1 61 |
| | 894 | Physics & E. E. | Young & Gibson Co. | 133 85 |

EQUIPMENT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|--------------------|----------------------------|---------|
| | 895 | Physics & E. E. | T. Haswell | 1 50 |
| | 896 | Physics & E. E. | A. Thompson & Co. | 309 67 |
| | 897 | Physics & E. E. | J. B. Colt & Co. | 64 91 |
| | 930 | Horticulture | Cook & Simmons | 325 00 |
| | 946 | Chemical | R. Bell | 39 00 |
| | 947 | Chemical | W. M. Carroll | 40 |
| | 948 | Chemical | H. & T. C. Ry. Co. | 50 41 |
| | 949 | Horticulture | H. & T. C. Ry. Co. | 22 60 |
| | 950 | Entomology | L. Scholl | 8 73 |
| | 951 | M. E. | G. C. Buchanan | 11 55 |
| | 952 | Botanical | A. E. Withers | 7 50 |
| | 953 | Physics & E. E. | I. & G. N. Ry. Co. | 4 03 |
| | 954 | Physics & E. E. | H. & T. C. Ry. Co. | 1 24 |
| Dec. 1, 1903 | 101 | M. E. | T. Schmeidekind | 116 90 |
| | 1092 | Entomology | F. Dames | 2 20 |
| | 1093 | Entomology | J. A. Myres | 11 60 |
| | 1094 | Entomology | Anthony & Scovill Co. | 72 00 |
| | 1095 | Entomology | Houston Cornice Works | 41 00 |
| | 1096 | Entomology | Bailey Mills Co. | 108 08 |
| | 1097 | Entomology | John Weldon Co. | 5 62 |
| | 1098 | Entomology | G. H. & Webb | 17 79 |
| | 1099 | Entomology | The Key Scheren Co. | 234 65 |
| | 1100 | Entomology | Bausch & Lamb Optical Co. | 90 00 |
| | 1101 | Entomology | Bausch & Lamb Optical Co. | 42 53 |
| | 1102 | Entomology | Fred Macey Co. | 61 40 |
| | 1103 | Entomology | W. Junke | 2 65 |
| | 1148 | Chemical | A. H. Andrews Co. | 2 05 |
| | 1149 | Chemical | A. H. Andrews Co. | 9 07 |
| | 1150 | Chemical | Stevenson Machine & R. Co. | 44 02 |
| | 1151 | Chemical | Levy Brothers | 2 60 |
| | 1152 | Chemical | J. A. Myres | 10 20 |
| | 1153 | Chemical | J. A. Myres | 10 95 |
| | 1154 | Chemical | E. H. Sargent Co. | 12 00 |
| | 1155 | Chemical | E. H. Sargent Co. | 2 00 |
| | 1156 | Chemical | G. S. Parker | 9 60 |
| | 1157 | Chemical | G. S. Parker | 7 17 |
| | 1158 | M. E. | G. S. Parker | 7 31 |
| | 1159 | Botanical | Bausch & Lamb Optical Co. | 264 44 |
| | 1160 | Botanical | J. J. Pastoriza Co. | 5 30 |
| | 1161 | Botanical | Bausch & Lamb Optical Co. | 51 01 |
| | 1162 | Hospital | Ed. Kiam | 24 00 |
| | 1163 | Hospital | J. A. Myres | 51 85 |
| Dec. 10, 1903 | 1164 | Hospital | G. S. Parker | 7 33 |
| | 1332 | M. E. | Isaac & Heffron | 22 50 |
| | 1333 | Hospital | A. B. Thomas | 441 93 |
| | 1334 | Hospital | Harrison & Winchell | 29 77 |
| | 1335 | Hospital | Sanger Brothers | 141 43 |
| | 1336 | Botanical | Bausch & Lamb Optical Co. | 31 13 |
| | 1337 | Botanical | Bausch & Lamb Optical Co. | 140 50 |
| | 1338 | Physics & E. E. | Ives Process Co. | 156 00 |
| | 1339 | Physics & E. E. | T. E. Clark et al. | 26 74 |
| | 1340 | Physics & E. E. | T. Macey Co. | 28 03 |
| | 1381 | Chemical | I. & G. N. Ry. Co. | 6 06 |
| | 1382 | Chemical | I. & G. N. Ry. Co. | 30 |
| | 1383 | Chemical | I. & G. N. Ry. Co. | 5 20 |
| | 1384 | Chemical | I. & G. N. Ry. Co. | 1 08 |
| | 1385 | Chemical | I. & G. N. Ry. Co. | 40 |
| | 1386 | Chemical | I. & G. N. Ry. Co. | 1 37 |
| | 1387 | Chemical | W. U. Tel. Co. | 75 |
| | 1388 | Chemical | J. S. Adams | 5 25 |
| | 1389 | Chemical | H. & T. C. Ry. Co. | 50 |
| | 1390 | Physics & E. E. | W. F. Express Co. | 60 |
| | 1391 | Physics & E. E. | I. & G. N. Ry. Co. | 5 75 |
| | 1392 | Physics & E. E. | H. & T. C. Ry. Co. | 1 24 |
| | 1393 | M. E. | I. & G. N. Ry. Co. | 10 22 |
| | 1394 | M. E. | I. & G. N. Ry. Co. | 24 00 |
| Dec. 17, 1903 | 1419 | Chemical | R. Bell | 131 65 |
| | 1493 | Veterinary | B. & L. Optical Co. | 425 00 |
| | 1494 | Entomology | Chemical Dept. A. & M. C. | 4 00 |
| | 1495 | General | Dorsey Printing Co. | 50 00 |
| | 1496 | Entomology | I. Chambers | 190 00 |
| | 1497 | P. & E. E. | The Schopirograph Co. | 4 75 |
| | 1498 | Horticulture | C. Weischel Co. | 26 35 |
| | 1499 | Horticulture | G. H. & Webb | 11 08 |
| | 1500 | Horticulture | J. S. Hannon | 25 70 |

EQUIPMENT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|---------------------------|---------------------------------|---------|
| | 1501 | Horticulture | A. T. Thompson & Co..... | 11 68 |
| | 1517 | M. E. | C. Buchanan | 3 75 |
| | 1518 | Agriculture | Capital City Mach. Co..... | 69 10 |
| | 1519 | Agriculture | I. & G. N. Ry. Co..... | 7 63 |
| | 1520 | Agriculture | S. O. Payne..... | 1 00 |
| | 1521 | Agriculture | H. & T. C. Ry. Co..... | 10 23 |
| | 1522 | Agriculture | H. & T. C. Ry. Co..... | 2 75 |
| | 1523 | General | W. F. Express Co..... | 2 90 |
| | 1524 | General | I. & G. N. Ry. Co..... | 2 46 |
| | 1525 | Chemical | J. Ramsay | 11 00 |
| | 1526 | Chemical | H. & T. C. Ry. Co..... | 10 50 |
| | 1527 | Dairy | I. & G. N. Ry. Co..... | 14 12 |
| | 1528 | Physics & E. E. | I. & G. N. Ry. Co..... | 54 37 |
| | 1529 | Physics & E. E. | I. & G. N. Ry. Co..... | 9 50 |
| | 1530 | Physics & E. E. | I. & G. N. Ry. Co..... | 23 17 |
| Dec. 22, 1903 | 1574 | Animal husbandry..... | Clay Robinson & Co..... | 179 52 |
| Dec. 24, 1903 | 1575 | Animal husbandry..... | F. R. Marshall..... | 49 55 |
| | 1576 | Animal husbandry..... | F. R. Marshall..... | 15 00 |
| | 1577 | M. E. | Sow Wire Works Co..... | 91 78 |
| | 1578 | M. E. | F. W. Heitman & Co..... | 3 35 |
| | 1580 | Physics & E. E. | Willard Storage Battery Co..... | 520 58 |
| | 1581 | Agricultural library..... | Anthony & Scoville Co..... | 28 80 |
| | 1582 | Entomology | Am. Entomological Co..... | 11 48 |
| | 1583 | Entomology | Wm. Gerhard | 30 75 |
| | 1584 | Entomology | The Ohio Naturalist..... | 1 00 |
| | 1585 | Entomology | Sanger Brothers | 13 65 |
| | 1586 | Entomology | D. Poge & Co..... | 4 34 |
| Jan. 11, 1904 | 1744 | Botanical | Levy Brothers | 11 20 |
| | 1745 | Botanical | Bausch & Lomb Optical Co..... | 13 50 |
| | 1746 | Animal husbandry..... | Burgess Bros..... | 120 00 |
| | 1747 | M. E. | L. Fire Brick Mfg. Co..... | 216 03 |
| | 1748 | Physics & E. E. | Span & Chamberlain..... | 11 25 |
| | 1749 | Physics & E. E. | Fred Macey Co..... | 1 04 |
| | 1750 | Physics & E. E. | I. & G. N. Ry. Co..... | 1 57 |
| | 1751 | Physics & E. E. | Appel Murdock Co..... | 8 00 |
| | 1752 | Veterinary | J. Law | 4 00 |
| Jan. 12, 1904 | 1753 | General | A. H. Andrews Co..... | 21 60 |
| | 1812 | Chemical | H. & T. C. Ry. Co..... | 23 25 |
| Jan. 22, 1904 | 1813 | Animal husbandry..... | I. & G. N. Ry. Co..... | 169 33 |
| | 1931 | Horticulture | J. A. Myres..... | 51 38 |
| | 1932 | Hospital | A. B. Thomas..... | 7 34 |
| | 1933 | M. E. | Hay-Budden Mfg. Co..... | 63 21 |
| | 1934 | Chemical | G. S. Parker..... | 7 67 |
| | 1935 | Chemical | Peerless Slate Co..... | 50 00 |
| Jan. 30, 1904 | 1936 | Chemical | T. H. Kessler & Co..... | 394 75 |
| | 2015 | Entomology | G. H. & Webb..... | 9 94 |
| | 2016 | Entomology | Parks & Waldrop..... | 2 00 |
| | 2017 | Entomology | Am. Entomological Co..... | 1 65 |
| | 2018 | Entomology | J. B. Colt Co..... | 8 00 |
| | 2019 | Entomology | J. Seaman | 53 00 |
| | 2020 | Entomology | J. A. Myres..... | 13 68 |
| Feb. 1, 1904 | 2089 | Lab. and dairy..... | I. & G. N. Ry. Co..... | 96 |
| | 2090 | Lab. and dairy..... | Pacific Express Co..... | 30 |
| | 2091 | Lab. and dairy..... | I. & G. N. Ry. Co..... | 2 32 |
| | 2092 | Lab. and dairy..... | I. & G. N. Ry. Co..... | 3 35 |
| | 2093 | Animal husbandry..... | W. U. Tel. Co..... | 60 |
| | 2094 | M. E. | W. F. Express Co..... | 25 |
| | 2095 | M. E. | W. Battle et al..... | 10 00 |
| | 2096 | M. E. | H. & T. C. Ry. Co..... | 12 30 |
| | 2097 | Veterinary | H. & T. C. Ry. Co..... | 78 59 |
| Feb. 9, 1904 | 2190 | Veterinary | M. Winter Lumber Co..... | 441 00 |
| | 2191 | Horticulture | Wagner & Brandon..... | 9 62 |
| | 2192 | Horticulture | Heyer Photo Supply Co..... | 12 30 |
| | 2193 | Horticulture | The Macmillan Co..... | 1 26 |
| | 2194 | Horticulture | J. B. Holt Co..... | 10 00 |
| | 2195 | Horticulture | G. H. & Webb..... | 26 28 |
| | 2196 | Hospital | J. A. Myres..... | 13 30 |
| | 2197 | Animal husbandry..... | J. C. Ross..... | 24 00 |
| | 2198 | Agriculture | J. B. Colt Co..... | 10 00 |
| | 2199 | Agriculture | Eimer & Amend..... | 21 20 |
| | 2200 | Agriculture | T. H. Kessler & Co..... | 300 00 |
| | 2201 | Agriculture | Eimer & Amend..... | 222 40 |
| | 2202 | Entomology | A. I. Root Co..... | 24 30 |
| | 2283 | Lab. and dairy..... | I. & G. N. Ry. Co..... | 1 37 |
| | 2284 | Lab. and dairy..... | I. & G. N. Ry. Co..... | 1 49 |

EQUIPMENT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-----------------------|----------------------------------|---------|
| Feb. 20, 1904 | 2285 | Lab. and dairy..... | S. A. Payne..... | 23 00 |
| | 2286 | Lab. and dairy..... | T. H. Rone..... | 1 00 |
| | 2287 | Animal husbandry..... | W. F. Express Co..... | 5 50 |
| | 2288 | Chemical..... | H. & T. C. Ry. Co..... | 2 14 |
| | 2289 | M. E. | C. Gorzycki et al..... | 22 50 |
| | 2290 | M. E. | J. H. Suber, Jr..... | 8 00 |
| | 2347 | Agriculture..... | A. & M. subsistence account..... | 13 15 |
| | 2348 | Agriculture..... | A. & M. subsistence account..... | 7 50 |
| | 2349 | Agriculture..... | C. B. Mason..... | 1 50 |
| | 2350 | M. E. | G. H. & Webb..... | 1 60 |
| Feb. 27, 1904 | 2351 | M. E. | W. H. Morris Lumber Co..... | 34 50 |
| | 2352 | M. E. | Buffalo Forge Co..... | 5 75 |
| | 2353 | Chemical..... | W. R. Perrin..... | 40 00 |
| | 2354 | Lab. and dairy..... | Creamery Packing Co..... | 73 95 |
| | 2481 | Physics & E. E..... | Machado & Roller..... | 169 07 |
| | 2482 | Veterinary..... | W. A. Jenkins..... | 2 63 |
| | 2483 | Horticulture..... | J. A. Myres..... | 11 32 |
| | 2484 | Animal husbandry..... | J. A. Craig..... | 5 85 |
| | 2485 | Lab. and dairy..... | G. H. & Webb..... | 1 85 |
| | 2496 | Lab. and dairy..... | W. P. Oil Co..... | 14 31 |
| Mch. 9, 1904 | 2487 | Lab. and dairy..... | Torsion Balance Co..... | 87 30 |
| | 2488 | Lab. and dairy..... | Cole Hardware Co..... | 42 99 |
| | 2489 | Lab. and dairy..... | Collins Brothers..... | 489 79 |
| | 2573 | Animal husbandry..... | I. & G. N. Ry. Co..... | 11 00 |
| | 2540 | M. E. | D. Foster et al..... | 19 95 |
| | 2541 | M. E. | Austin Millican..... | 2 50 |
| | 2542 | M. E. | E. Griffin et al..... | 32 20 |
| | 2543 | M. E. | E. Griffin et al..... | 136 70 |
| | 2544 | Entomology..... | W. W. Bavington..... | 1 50 |
| | 2545 | Physics & E. E..... | W. F. Express Co..... | 12 05 |
| Mch. 12, 1904 | 2546 | Agricultural..... | Pacific Express Co..... | 1 00 |
| | 2547 | Agricultural..... | H. & T. C. Ry. Co..... | 27 19 |
| | 2608 | Physics & E. E..... | Fort Wayne Electric Works..... | 535 00 |
| | 2609 | Physics & E. E..... | General Electric Co..... | 5 20 |
| | 2610 | Physics & E. E..... | A. McKenzie..... | 14 00 |
| | 2611 | Agricultural..... | De Loral Separator Co..... | 9 36 |
| | 2612 | Agricultural..... | De Loral Separator Co..... | 12 40 |
| | 2613 | M. E. | G. H. & Webb..... | 2 14 |
| | 2614 | M. E. | J. S. Harrison..... | 88 05 |
| | 2615 | M. E. | Buffalo Forge Co..... | 47 00 |
| Mch. 17, 1904 | 2616 | Chemical..... | Hill Bros. & Co..... | 260 68 |
| | 2617 | Hospital..... | Sanger Bros..... | 33 00 |
| | 2650 | Entomology..... | A. H. Thomas Co..... | 9 00 |
| | 2651 | Entomology..... | Anthony & Scoville Co..... | 3 00 |
| | 2652 | Entomology..... | Am. Entomological Society..... | 2 00 |
| | 2654 | Entomology..... | E. E. Myers & Bro..... | 1 00 |
| | 2680 | M. E. | W. Gorzycki et al..... | 38 75 |
| | 2681 | M. E. | Henry Williams..... | 3 75 |
| | 2682 | Horticulture..... | F. C. Vannoy..... | 3 55 |
| | 2683 | Physics & E. E..... | H. & T. C. Ry. Co..... | 1 25 |
| Mch. 28, 1904 | 2704 | Entomological..... | E. D. Phillips..... | 48 50 |
| | 2728 | Entomology..... | H. D. Merrick..... | 2 25 |
| | 2729 | Entomology..... | F. W. Heitman & Co..... | 11 30 |
| | 2730 | Entomology..... | E. H. Burns..... | 1 05 |
| | 2731 | Entomology..... | Von Boeckmann-Jones Co..... | 52 10 |
| | 2732 | Entomology..... | Geo. F. Lasher..... | 2 50 |
| | 2733 | Horticulture..... | Chas. Scribner & Sons..... | 3 23 |
| | 2734 | Horticulture..... | D. Appleton & Co..... | 74 |
| | 2735 | Horticulture..... | The Macmillan Co..... | 5 48 |
| | 2736 | Horticulture..... | Houghton Mifflin & Co..... | 11 16 |
| Mch. 28, 1904 | 2737 | Horticulture..... | H. A. Hyatt..... | 5 25 |
| | 2738 | Horticulture..... | The Nut Grover..... | 1 35 |
| | 2739 | Horticulture..... | University Pub. Co..... | 60 |
| | 2740 | Horticulture..... | A. Flanagan & Co..... | 50 |
| | 2741 | Horticulture..... | Ginn & Co..... | 3 57 |
| | 2742 | Hospital..... | M. H. James..... | 30 00 |
| | 2806 | Animal husbandry..... | H. & T. C. Ry. Co..... | 28 80 |
| | 2807 | Animal husbandry..... | S. W. Tel. Co..... | 65 |
| | 2844 | Entomological..... | Leggett & Bros..... | 11 75 |
| | 2845 | Horticulture..... | D. Appleton & Co..... | 60 |
| A. & M.—14. | 2846 | Botanical..... | A. P. Cary Co..... | 1 00 |
| | 2847 | Botanical..... | A. P. Cary Co..... | 1 50 |
| | 2848 | Agricultural..... | F. S. Johnston..... | 4 70 |

EQUIPMENT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|----------------|-------------|-----------------------|----------------------------------|---------|
| April 6, 1904 | 2849 | Agricultural | F. R. Marshall..... | 4 95 |
| | 2850 | Mechanical | H. & T. C. Ry. Co..... | 2 66 |
| | 2851 | Mechanical | W. Garzycki et al..... | 12 75 |
| | 3006 | Physics & E. E. | Bryan Eagle | 10 50 |
| | 3007 | Physics & E. E. | H. & T. C. Ry. Co..... | 6 46 |
| | 3008 | M. E. | F. W. Heitman & Co..... | 54 23 |
| | 3009 | M. E. | H. Williams | 7 50 |
| | 3010 | M. E. | W. Garzycki et al..... | 37 50 |
| | 3011 | Animal husbandry..... | G. H. & Webb | 9 31 |
| | 3012 | Animal husbandry..... | W. F. Express Co..... | 6 60 |
| | 3013 | Horticulture | Bering Cortes & Co..... | 11 05 |
| | 3014 | Horticulture | Hyer Photo Co..... | 3 30 |
| | 3015 | Horticulture | G. H. & Webb | 39 04 |
| | 3016 | Horticulture | E. J. Kyle..... | 4 15 |
| | 3017 | Entomological | J. K. Small | 3 35 |
| | 3018 | Entomological | Morrill & Morley..... | 50 10 |
| | 3019 | Entomological | G. H. & Webb | 191 00 |
| | 3020 | Entomological | Am. Entomological Co..... | 5 65 |
| | 3021 | Agricultural | H. P. Stacy..... | 400 00 |
| | 3022 | Agricultural | G. H. & Webb | 4 25 |
| April 12, 1904 | 3095 | Agricultural | F. R. Marshall..... | 9 61 |
| | 3096 | Agricultural | T. H. Kessler & Co..... | 195 00 |
| | 3097 | Agricultural | Detroit Heating & Light Co..... | 275 00 |
| | 3098 | Botanical | Detroit Heating & Light Co..... | 125 00 |
| | 3099 | Animal husbandry..... | H. & T. C. Ry. Co..... | 5 90 |
| | 3100 | Physics & E. E. | G. H. & Webb | 15 95 |
| | 3101 | M. E. | Henry Williams | 7 50 |
| | 3102 | M. E. | W. F. Express Co..... | 60 |
| | 3103 | M. E. | Pacific Express Co..... | 1 15 |
| | 3104 | M. E. | Peden Iron & Steel Co..... | 60 26 |
| | 3105 | Horticulture | Morrill & Morley..... | 54 12 |
| | 3106 | Horticulture | T. Haswell | 4 70 |
| | 3107 | Horticulture | Texas Seed & Floral Co..... | 60 |
| | 3108 | Horticulture | D. Page & Co..... | 38 00 |
| April 28, 1904 | 3109 | Horticulture | D. Page & Co..... | 3 30 |
| | 3321 | Entomological | G. H. & Webb | 4 56 |
| | 3322 | Entomological | J. A. Myres | 10 45 |
| | 3323 | Entomological | Woodward & Bros..... | 3 20 |
| | 3324 | Entomological | Clarke & Courts..... | 14 50 |
| | 3325 | Entomological | Field Force Pump Co..... | 25 00 |
| | 3326 | Entomological | Cole Hardware Co..... | 2 40 |
| | 3327 | Entomological | Howell Brothers | 3 85 |
| | 3328 | Entomological | John Deer Plow Co..... | 5 00 |
| | 3329 | Entomological | Frank & Wagnall..... | 9 75 |
| | 3330 | Physics & E. E. | Bryan Eagle | 13 50 |
| | 3331 | Physics & E. E. | Will Young & Gibson Co..... | 66 10 |
| | 3332 | Physics & E. E. | S. W. Tel. Co..... | 60 |
| | 3333 | History | Texas Drug Co..... | 45 00 |
| April 30, 1904 | 3334 | Agriculture | Henry & Phillips Hdw. Co..... | 22 84 |
| | 3335 | Agriculture | J. A. Myres | 7 35 |
| | 3486 | History | W. F. Express Co..... | 60 |
| | 3487 | Agriculture | H. & T. C. Ry. Co..... | 10 56 |
| | 3488 | Agriculture | H. & T. C. Ry. Co..... | 60 00 |
| | 3489 | Agriculture | W. U. Tel. Co..... | 60 |
| May 10, 1904 | 3601 | M. E. | J. F. Adams..... | 17 00 |
| | 3602 | Physics | W. F. Express Co..... | 35 |
| | 3603 | Physics | Pacific Express Co..... | 30 |
| | 3604 | Physics | J. A. Myres | 50 |
| | 3605 | Physics | I. & G. N. Ry. Co..... | 1 57 |
| | 3606 | Physics | I. & G. N. Ry. Co..... | 33 67 |
| May 15, 1904 | 3647 | Entomological..... | J. A. Myres..... | 2 95 |
| | 3648 | Entomological | Root & Co..... | 3 25 |
| | 3649 | Entomological | W. T. Talcome & Co..... | 10 00 |
| | 3650 | Entomological | Dadant & Son..... | 3 37 |
| | 3652 | M. E. | G. H. & Webb | 32 19 |
| | 3653 | M. E. | F. W. Heitman & Co..... | 8 38 |
| | 3654 | Horticulture | House Correspondence School..... | 2 75 |
| | 3655 | Horticulture | Maher & Grosh..... | 5 71 |
| | 3656 | Horticulture | A. P. Carey Co..... | 25 50 |
| | 3657 | Veterinary | J. A. Myres..... | 95 |
| | 3658 | Veterinary | Eimer & Amend..... | 75 |
| | 3659 | Veterinary | M. Francis | 27 98 |
| | 3660 | Veterinary | Brindley Bros..... | 1 00 |
| | 3661 | Veterinary | A. Carter | 4 50 |
| | 3662 | Veterinary | E. J. Jenkins..... | 1 95 |

EQUIPMENT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|-----------------------|-----------------------------------|---------|
| June 1, 1904 | 3663 | Physics | E. M. Electric Co..... | 12 94 |
| | 3664 | Physics | Nernst Lamp Co..... | 12 06 |
| | 3665 | Physics | James & Costler..... | 23 25 |
| | 3666 | Physics | McChado & Rolle..... | 1 64 |
| | 3667 | Physics | Union Carbide Co..... | 4 36 |
| | 3668 | Physics | Duncan Hobson Co..... | 5 94 |
| | 3669 | Physics | General Electric Co..... | 119 25 |
| | 3670 | Physics | General Electric Co..... | 720 00 |
| | 3761 | Physics | W. Elect. Inst. Co..... | 278 20 |
| | 3762 | Physics | D. Hobson Electric Co..... | 36 58 |
| | 3763 | Agriculture | Separator Co..... | 180 00 |
| | 3764 | Agriculture | W. L. Martin & Son..... | 95 18 |
| | 3765 | Entomological | White Mfg. Co..... | 1 40 |
| | 3766 | Entomological | Am. Entomological Co..... | 61 31 |
| June 6, 1904 | 3767 | Entomological | Entomological News | 2 75 |
| | 3768 | C. E. | Kruffel & Evans..... | 220 00 |
| | 3803 | Agricultural | R. Andrews et al..... | 18 00 |
| | 3804 | Agricultural | S. G. Buchanan..... | 14 00 |
| | 3805 | Agricultural | L. F. Bittle..... | 12 00 |
| | 3806 | Agricultural | Pacific Express Co..... | 1 60 |
| | 3807 | Agricultural | D. F. Battle et al..... | 74 85 |
| | 3808 | Agricultural | I. & G. N. Ry. Co..... | 1 77 |
| | 3809 | Physics & E. E..... | H. & T. C. Ry. Co..... | 2 12 |
| | 3810 | Entomological | T. Hudson..... | 1 00 |
| | 3811 | Horticultural | J. Carroll et al..... | 14 00 |
| | 3812 | Horticultural | E. J. Kyle..... | 2 05 |
| | 3813 | Horticultural | E. C. Green..... | 3 25 |
| | 3814 | Horticultural | J. Carroll et al..... | 33 00 |
| June 11, 1904 | 3815 | Horticulture | A. F. Wilson..... | 2 00 |
| | 3827 | M. E. | Tom Hudson..... | 2 25 |
| | 3938 | Agricultural | J. Carroll et al..... | 96 25 |
| | 3939 | Agricultural | John Foster et al..... | 48 00 |
| June 15, 1904 | 3940 | Animal husbandry..... | T. R. Carson et al..... | 39 95 |
| | 3941 | M. E. | W. Garzycki..... | 10 00 |
| | 3985 | M. E. | J. A. Myres..... | 5 50 |
| | 3986 | M. E. | G. H. & Webb..... | 4 25 |
| | 3987 | Horticultural | C. M. Parker..... | 40 |
| | 3988 | Horticultural | D. Page & Co..... | 3 00 |
| | 3989 | Botanical | T. Haswell..... | 4 58 |
| | 3990 | Botanical | J. A. Myres..... | 45 |
| | 3991 | Botanical | Clarke & Courts..... | 16 15 |
| | 3992 | Hospital | J. A. Myres..... | 2 50 |
| | 3993 | Physics | Journal..... | 50 |
| | 3994 | Physics | Scott Foresman & Co..... | 1 71 |
| | 3995 | Physics | J. W. Kestler..... | 3 00 |
| | 3996 | Physics | Southern School Book Co..... | 5 86 |
| June 20, 1904 | 3997 | Physics | C. H. Storeting Co..... | 406 56 |
| | 3998 | Physics | J. A. Myres..... | 16 13 |
| | 4042 | M. E. | H. & T. C. Ry. Co..... | 1 88 |
| | 4043 | Drawing | W. F. Express Co..... | 50 |
| | 4044 | Agricultural | G. W. Buchanan..... | 18 00 |
| | 4045 | Agricultural | C. B. Baker..... | 30 00 |
| | 4046 | Physics | W. F. Express Co..... | 3 45 |
| | 4047 | Horticultural | Curtis Studio..... | 1 50 |
| | 4048 | Horticultural | J. Carroll..... | 3 50 |
| | 4075 | Horticultural | Heyer Photo Supply Co..... | 29 57 |
| | 4076 | Drawing | E. Dietzgen & Co..... | 45 |
| | 4077 | Drawing | F. Weber & Co..... | 6 63 |
| | 4078 | Drawing | Bryan Eagle..... | 2 10 |
| | 4079 | Drawing | Bryan Eagle..... | 1 50 |
| | 4080 | Drawing | Bryan Eagle..... | 1 50 |
| | 4081 | Entomology | Denning Co..... | 25 13 |
| | 4082 | Entomology | Hamilton Printing Co..... | 3 00 |
| | 4083 | Entomology | Busch & Lamb..... | 2 59 |
| | 4084 | Entomology | Entomological Society of Ont..... | 1 00 |
| | 4085 | Entomology | Goulds Mfg. Co..... | 14 40 |
| | 4086 | Entomology | C. L. Hill..... | 5 50 |
| | 4087 | Entomology | L. H. Scholl..... | 1 50 |
| | 4088 | Entomology | Hyde Bee Co..... | 5 75 |
| | 4089 | Entomology | Dust Sprayer Mfg. Co..... | 9 50 |
| | 4090 | Agricultural | Mosher Mfg. Co..... | 36 00 |
| July 6, 1904 | 4170 | Entomological | Brazos Pilot..... | 2 75 |
| | 4171 | Entomological | Am. Entomological Co..... | 5 02 |

EQUIPMENT ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|--------------------------------|-------------|---------------------|-------------------------------|-------------------------|
| July 9, 1904 | 4172 | Entomological | Cambridge Entomological Club | 13 00 |
| | 4173 | Entomological | J. A. Myres..... | 17 11 |
| | 4174 | Entomological | C. Weischel | 4 78 |
| | 4175 | Botanical | J. J. Pastoriza..... | 14 50 |
| | 4197 | Horticultural | G. W. Buchanan..... | 17 75 |
| | 4198 | Agricultural | R. E. Thweatt..... | 45 00 |
| | 4199 | Botanical | O. M. Ball..... | 26 05 |
| | 4207 | Entomological | E. D. Sanderson..... | 1 35 |
| | 4214 | Drawing | A. G. Stattler..... | 4 50 |
| | 4216 | Agricultural | J. Foster et al..... | 20 00 |
| | 4217 | Agricultural | J. Foster et al..... | 18 00 |
| | 4218 | Agricultural | H. & T. C. Ry. Co..... | 46 |
| | 4225 | Physics & E. E..... | Wesco Supply Co..... | 41 83 |
| | 4226 | Drawing | J. A. Myres..... | 60 |
| July 30, 1904 | 4331 | Agricultural | G. W. Buchanan..... | 60 80 |
| | 4332 | Agricultural | J. Foster et al..... | 6 50 |
| | 4333 | Agricultural | W. F. Express Co..... | 30 |
| | 4334 | Agricultural | H. & T. C. Ry. Co..... | 66 |
| | 4335 | Agricultural | G. W. Buchanan..... | 3 15 |
| July 31, 1904 | 4336 | Agricultural | W. F. Express Co..... | 45 |
| | 4337 | Agricultural | A. C. Ivy et al..... | 27 55 |
| | 4338 | Agricultural | F. R. Marshall..... | 68 |
| | 4339 | Entomological | H. C. Ivey..... | 10 50 |
| | 4363 | Agricultural | H. & T. C. Ry. Co..... | 7 50 |
| | 4364 | Agricultural | R. E. Thweatt..... | 45 00 |
| Aug. 31, 1904 | 2202 | Entomological | A. Root & Co. (error of)..... | 02 |
| | 4442 | Agricultural | R. E. Thweatt..... | 45 00 |
| | 4443 | Agricultural | W. F. Express Co..... | 2 25 |
| | 4444 | Agricultural | H. & T. C. Ry. Co..... | 1 40 |
| | 4445 | Agricultural | Fairbanks Co..... | 14 30 |
| | 4446 | Entomological | L. H. Scholl..... | 23 85 |
| | 4447 | Physics & E. E..... | I. & G. N. Ry. Co..... | 3 65 |
| Expended | | | | \$21,951 91 |
| Appropriation, 1903-1904 | | | | \$28,500 00 |
| Balance | | | | \$6,548 09 |
| | | | | \$28,500 00 \$28,500 00 |

TEXTILE BUILDING ACCOUNT.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|----------------|-------------|-------------------------|----------------------------|---------|
| Oct. 30, 1902 | 606 | Architect fees..... | J. E. Serrine..... | 150 00 |
| | 607 | Advertising | Record and Register..... | 12 40 |
| | 608 | Advertising | Houston Printing Co..... | 8 85 |
| Nov. 5, 1902 | 890 | Advertising | Express Publishing Co..... | 8 30 |
| | 891 | Advertising | H. P. Matthews, Agent..... | 16 44 |
| Feb. 1, 1903 | 2062 | Expense | Pacific Express Co..... | 25 |
| | 2063 | Labor | J. Andrews | 6 50 |
| | 2064 | Labor | J. Andrews et al..... | 15 50 |
| Feb. 3, 1903 | 2138 | Contract | Harrison & Nelson..... | 5000 00 |
| Feb. 9, 1903 | 2174 | Building | F. W. Heitman & Co..... | 36 15 |
| Feb. 27, 1903 | 2539 | Labor | C. Wood et al..... | 6 00 |
| Mch. 3, 1903 | 2564 | Contract | Nelson & Harrison..... | 6000 00 |
| Mch. 12, 1903 | 2708 | Contract | Nelson & Harrison..... | 4250 00 |
| Mch. 28, 1903 | 2805 | Labor | T. Hudson et al..... | 3 75 |
| | 2967 | Contract | Nelson & Harrison..... | 1000 00 |
| April 12, 1903 | 3072 | Contract | Nelson & Harrison..... | 1500 00 |
| April 15, 1903 | 3293 | Contract | Nelson & Harrison..... | 2000 00 |
| June 6, 1903 | 3840 | Labor | H. Williams | 8 00 |
| July 6, 1903 | 4157 | Traveling expenses..... | G. T. Jester..... | 158 60 |

TEXTILE BUILDING ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|------------------------------------|-------------|--------------------|-------------------------|-------------|
| July 9, 1903 | 4221 | Contract | Nelson & Harrison..... | 5461 50 |
| Aug. 31, 1903 | 4448 | Expense | W. C. Boyett, P. M..... | 2 50 |
| | 4449 | Expense | W. C. Boyett, P. M..... | 1 00 |
| | 4450 | Expense | H. & T. C. Ry. Co..... | 1 00 |
| | 4451 | Expense | W. F. Express Co..... | 1 20 |
| Expended | | | | \$25,642 94 |
| Appropriation March 23, 1903 | | | | \$50,000 00 |
| By balance | | | | \$24,357 06 |
| | | | | \$50,000 00 |
| | | | | \$50,000 00 |

STUDENT LABOR ACCOUNT.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|----------------------|----------------------------|---------|
| Dec. 10, 1902 | 956 | Band | Evans et al..... | 44 00 |
| | 957 | Natatorium | A. J. Neff..... | 10 00 |
| | 958 | Natatorium | A. J. Neff..... | 15 00 |
| | 959 | Contingent | W. L. Conruth..... | 10 00 |
| | 960 | Contingent | W. L. Conruth..... | 15 00 |
| | 961 | Contingent | T. E. Johnson..... | 10 00 |
| | 962 | Contingent | T. E. Johnson..... | 15 00 |
| | 963 | Book Store..... | O. J. McKnight..... | 3 35 |
| | 964 | Book Store..... | O. J. McKnight..... | 5 00 |
| | 965 | Book Store..... | Mansfield et al..... | 12 00 |
| | 966 | Library | D. E. Pendleton..... | 8 55 |
| | 967 | Physics | J. W. Carter..... | 5 00 |
| | 968 | Physics | J. W. Carter..... | 6 90 |
| | 969 | C. E. | Clonts et al..... | 26 80 |
| | 970 | C. E. | G. H. Pope..... | 3 10 |
| | 971 | M. E. | Danton et al..... | 9 40 |
| | 972 | B. & Repairs..... | G. Pope..... | 3 16 |
| | 973 | Drawing | Neff et al..... | 11 25 |
| | 974 | Drawing | Rees et al..... | 4 65 |
| | 975 | Agriculture | Thweatt et al..... | 22 70 |
| | 976 | Campus | Collins et al..... | 28 00 |
| | 977 | Campus | Brinckmann et al..... | 91 35 |
| | 978 | Steam Plant..... | Adkinson et al..... | 88 05 |
| | 979 | Steam Plant..... | Adkinson et al..... | 130 30 |
| | 980 | Chemical | T. Youngblood..... | 5 15 |
| | 981 | Chemical | Carter et al..... | 3 00 |
| | 982 | Chemical | Risien et al..... | 10 15 |
| | 983 | Farm | Newton et al..... | 96 75 |
| | 984 | Veterinary | Foster et al..... | 3 05 |
| | 985 | Horticulture | Evans | 30 22 |
| | 986 | Entomology | Walden et al..... | 4 55 |
| | 987 | Hospital | W. C. Orr..... | 85 |
| Dec. 30, 1902 | 1153 | Entomology | McKay et al..... | 3 65 |
| | 1154 | M. E. | Darton et al..... | 16 20 |
| | 1155 | Physics | Carter et al..... | 9 10 |
| | 1156 | Steam Plant..... | Adkinson et al..... | 127 80 |
| | 1157 | Library | D. E. Pendleton et al..... | 5 55 |
| | 1158 | C. E. | Pope | 43 30 |
| | 1159 | Chemical | Risine et al..... | 53 15 |
| | 1160 | Horticulture | Wonderl et al..... | 43 68 |
| | 1161 | Farm | Youngblood et al..... | 26 35 |
| | 1162 | Agricultural | Worthing et al..... | 7 12 |
| | 1163 | Book store | O. J. McKnight..... | 5 00 |
| | 1164 | Band | Evans et al..... | 44 00 |
| Jan. 12, 1903 | 1461 | C. E. | Adkisson et al..... | 44 20 |
| | 1462 | C. E. | Black et al..... | 9 45 |
| | 1463 | Chemical | Garza et al..... | 19 55 |
| | 1464 | Contingent fund..... | Lee Carruth..... | 15 00 |

STUDENT LABOR ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|----------------|-------------|----------------------|-----------------------------|---------|
| | 1465 | Contingent fund..... | Lee Carruth..... | 15 00 |
| | 1466 | Contingent fund..... | A. J. Neff..... | 15 00 |
| | 1467 | Contingent fund..... | A. J. Neff..... | 15 00 |
| | 1468 | Band..... | Evans et al..... | 33 00 |
| | 1469 | Contingent fund..... | T. E. Johnson..... | 15 00 |
| | 1470 | Contingent fund..... | T. E. Johnson..... | 15 00 |
| | 1471 | Contingent fund..... | Elder et al..... | 10 50 |
| | 1472 | M. E..... | Dartn et al..... | 12 60 |
| | 1473 | M. E..... | Carruthers et al..... | 40 05 |
| | 1474 | Campus..... | Carruthers et al..... | 80 80 |
| | 1475 | Campus..... | Agnayo et al..... | 27 20 |
| | 1476 | Agriculture..... | Eberspacher et al..... | 7 30 |
| | 1477 | Agriculture..... | Youngblood et al..... | 38 51 |
| | 1478 | Entomology..... | Price et al..... | 11 60 |
| | 1479 | Entomology..... | Adkisson et al..... | 23 90 |
| | 1480 | Entomology..... | Johnson et al..... | 4 40 |
| | 1481 | Farm..... | Haltom et al..... | 11 65 |
| | 1482 | Farm..... | Evans..... | 18 50 |
| | 1483 | Farm..... | Schuer et al..... | 10 60 |
| | 1484 | Farm..... | Elder et al..... | 15 45 |
| | 1485 | Farm..... | Youngblood et al..... | 16 50 |
| | 1486 | Physics..... | Carter et al..... | 11 85 |
| | 1487 | Physics..... | Carter et al..... | 33 30 |
| | 1488 | Horticulture..... | Jeffries et al..... | 4 65 |
| | 1489 | Horticulture..... | Farrier et al..... | 27 25 |
| | 1490 | Horticulture..... | Crawford et al..... | 8 10 |
| | 1491 | Drawing..... | Reese et al..... | 6 70 |
| | 1492 | Steam plant..... | Adkisson et al..... | 78 40 |
| | 1493 | Book store..... | O. J. McKnight..... | 3 35 |
| Feb. 10, 1903 | 1833 | Contingent..... | J. E. Price..... | 2 50 |
| | 1834 | Band..... | Evans et al..... | 55 00 |
| | 1835 | Book store..... | O. J. McKnight..... | 5 00 |
| | 1836 | Natatorium..... | A. J. Neff..... | 15 00 |
| | 1837 | Janitors..... | Kendrick et al..... | 14 80 |
| | 1838 | Office..... | L. Carruth..... | 15 00 |
| | 1839 | Office..... | R. R. De Ware..... | 2 50 |
| | 1840 | Grounds..... | L. B. Crawford..... | 1 50 |
| | 1841 | Agriculture..... | Washburn et al..... | 28 12 |
| | 1842 | Agriculture..... | Geo. Hope..... | 5 50 |
| | 1843 | Entomology..... | Bostick et al..... | 28 65 |
| | 1844 | Farm..... | Youngblood et al..... | 38 20 |
| | 1845 | Farm..... | Haltom et al..... | 41 40 |
| | 1846 | Steam plant..... | Suttler et al..... | 11 95 |
| | 1847 | Steam plant..... | Adkinson et al..... | 105 15 |
| | 1848 | M. E..... | Arnold et al..... | 70 75 |
| | 1849 | Chemical..... | Risian et al..... | 36 97 |
| | 1850 | C. E..... | J. H. Pope et al..... | 46 65 |
| | 1851 | Physics..... | Carter et al..... | 22 50 |
| | 1852 | Veterinary..... | Tilson et al..... | 6 80 |
| | 1853 | Horticulture..... | Bartley et al..... | 100 63 |
| | 1854 | Drawing..... | Sattler et al..... | 16 60 |
| | 1855 | Campus..... | Buckring et al..... | 59 60 |
| Mich. 13, 1903 | 2146 | Entomology..... | W. A. Poindexter et al..... | 12 05 |
| | 2147 | Agricultural..... | Washburn..... | 6 76 |
| | 2148 | Agricultural..... | J. A. Johnson et al..... | 3 50 |
| | 2149 | Drawing..... | J. N. Seybold..... | 12 85 |
| | 2150 | Farm..... | Evans..... | 32 50 |
| | 2151 | Farm..... | Carlyle et al..... | 56 75 |
| | 2152 | C. E..... | Clouts et al..... | 15 85 |
| | 2153 | Steam plant..... | Clark et al..... | 94 65 |
| | 2154 | Campus..... | Kendrick et al..... | 7 30 |
| | 2155 | Campus..... | Beckham et al..... | 19 90 |
| | 2156 | Horticulture..... | Adkisson et al..... | 24 45 |
| | 2157 | Physics..... | J. W. Carter et al..... | 4 50 |
| | 2158 | Book store..... | O. J. McKnight et al..... | 5 00 |
| | 2159 | Band..... | Burnes et al..... | 59 90 |
| | 2160 | Contingent..... | L. Carruth..... | 15 00 |
| | 2161 | Contingent..... | L. Carruth..... | 15 00 |
| | 2162 | Natatorium..... | A. J. Neff..... | 15 00 |
| | 2163 | Natatorium..... | A. J. Neff..... | 15 00 |
| April 30, 1903 | 2715 | Farm..... | Evans et al..... | 29 35 |
| | 2716 | Farm..... | Kloss et al..... | 58 15 |
| | 2717 | Campus..... | Simms et al..... | 27 48 |
| | 2718 | Horticulture..... | Johnson et al..... | 35 25 |
| | 2719 | Drawing..... | J. N. Seybold et al..... | 13 20 |

STUDENT LABOR ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|--------------------|----------------------------|---------|
| May 22, 1903 | 2720 | Agricultural | C. E. Maedgen et al..... | 4 55 |
| | 2721 | Agricultural | Webb et al..... | 7 94 |
| | 2722 | Physics | J. W. Carter et al..... | 4 25 |
| | 2723 | Steam plant | Arnold et al..... | 95 55 |
| | 2724 | Steam plant..... | Danter et al..... | 5 10 |
| | 2725 | C. E..... | J. W. Benjamine et al..... | 24 85 |
| | 2736 | Library | Pendleton et al..... | 31 90 |
| | 2727 | Entomology | Kaufman et al..... | 5 60 |
| | 2728 | Entomology | C. Walden et al..... | 2 25 |
| | 2729 | Entomology | L. B. Crawford et al..... | 45 |
| | 2730 | Contingent | Burns et al..... | 58 50 |
| | 2731 | Contingent | B. Hull et al..... | 7 90 |
| | 2732 | Contingent | O. J. McKnight..... | 5 00 |
| | 2733 | Contingent | T. E. Johnson..... | 30 00 |
| | 2734 | Contingent | A. J. Neff..... | 15 00 |
| | 2735 | Contingent | L. Carruth..... | 15 00 |
| | 2893 | Band | Burns et al..... | 57 00 |
| | 2894 | Book store..... | O. J. McKnight..... | 5 00 |
| | 2895 | Steam plant..... | Arnold et al..... | 87 40 |
| | 2896 | Horticulture | Schuer et al..... | 35 50 |
| | 2897 | C. E..... | J. Carter et al..... | 87 80 |
| | 2898 | Campus | McKenzie et al..... | 22 10 |
| | 2899 | Agriculture | S. E. Rees et al..... | 16 97 |
| | 2900 | Agriculture | Maedgen et al..... | 10 00 |
| | 2901 | Agriculture | Evans et al..... | 33 06 |
| | 2902 | Chemical | Merk et al..... | 13 85 |
| | 2903 | Drawing | Darten et al..... | 8 90 |
| | 2904 | Drawing | Seybold et al..... | 13 85 |
| | 2905 | Physics | J. W. Carter et al..... | 2 15 |
| June 10, 1903 | 2906 | Farm | Crockett et al..... | 30 65 |
| | 2907 | Military | Lichte et al..... | 6 60 |
| | 3186 | Steam plant..... | Bryan et al..... | 108 30 |
| | 3187 | Steam plant..... | Clark et al..... | 67 20 |
| | 3188 | Steam plant..... | Brandt et al..... | 14 85 |
| | 3189 | Steam plant..... | Meet et al..... | 6 70 |
| | 3190 | C. E..... | T. H. Darter et al..... | 16 25 |
| | 3191 | C. E..... | J. W. Carter et al..... | 42 65 |
| | 3192 | Military | Lichte et al..... | 19 07 |
| | 3193 | Military | Matthews et al..... | 16 05 |
| | 3194 | Military | A. G. Sattler..... | 2 45 |
| | 3195 | Horticulture | Hoyo et al..... | 73 90 |
| | 3196 | Drawing | J. N. Seybold..... | 20 20 |
| | 3197 | Physics | J. W. Carter..... | 45 |
| | 3198 | Library | D. C. Pendleton..... | 13 95 |
| | 3199 | Chemistry | Meyers et al..... | 23 44 |
| | 3200 | Farm | Crockett et al..... | 26 65 |
| | 3201 | Agriculture | T. Youngblood..... | 6 88 |
| | 3202 | Agriculture | C. E. Marburger..... | 3 75 |
| | 3203 | Agriculture | Evans et al..... | 35 76 |
| | 3204 | Agriculture | T. C. Webb..... | 35 |
| | 3205 | Agriculture | A. McCormick..... | 28 99 |
| | 3206 | Campus | McKinzie et al..... | 18 87 |
| | 3207 | Campus | McKinzie et al..... | 5 00 |
| | 3208 | Band | Burns et al..... | 54 00 |
| | 3209 | Band | Burns et al..... | 27 00 |
| | 3210 | Contingent | M. L. Abrahams..... | 1 50 |
| | 3211 | Contingent | A. J. Neff..... | 5 00 |
| | 3212 | Contingent | A. J. Neff..... | 15 00 |
| | 3213 | Contingent | A. J. Neff..... | 15 00 |
| | 3214 | Contingent | Lee Carruth..... | 15 00 |
| | 3215 | Contingent | Lee Carruth..... | 15 00 |
| | 3216 | Contingent | Lee Carruth..... | 5 00 |
| | 3217 | Contingent | T. R. Beeman..... | 1 00 |
| July 16, 1903 | 3218 | Book store..... | O. J. Knight..... | 5 00 |
| | 3219 | Book store..... | O. J. Knight..... | 1 35 |
| | 3512 | Contingent | E. C. Evans..... | 3 50 |
| | 3513 | Contingent | B. L. Durst..... | 2 12 |
| | 3514 | Contingent | C. E. Maedgen..... | 20 25 |
| | 3515 | Contingent | L. Carruth..... | 4 00 |
| | 3516 | Contingent | Ballard et al..... | 21 70 |
| Aug. 1, 1903 | 3517 | Agricultural | C. E. Maedgen..... | 10 62 |
| | 3518 | Agricultural | E. C. Evans..... | 40 00 |
| | 3519 | Agricultural | C. E. Maedgen..... | 1 25 |
| | 3626 | Agriculture | C. E. Maedgen..... | 16 62 |
| | 3627 | Agriculture | C. E. Maedgen..... | 3 12 |

STUDENT LABOR ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|------------------------|----------------------------|---------|
| Aug. 31, 1903 | 3628 | Agriculture | H. A. Washburn..... | 30 00 |
| | 3629 | Agriculture | J. H. B. Piper..... | 26 25 |
| | 3630 | Contingent | L. L. Ballard et al..... | 34 55 |
| | 3632 | Horticulture | C. O. Moss..... | 22 05 |
| | 3634 | Contingent | L. Carruth..... | 34 65 |
| | 3825 | Agriculture | R. E. Thweatt..... | 4 00 |
| | 3826 | Agriculture | H. Piper..... | 35 00 |
| | 3827 | Agriculture | H. A. Washburn..... | 35 00 |
| | 3828 | Entomology | L. L. Ballard..... | 1 50 |
| | 3829 | Contingent | L. B. Crawford..... | 25 00 |
| Dec. 5, 1903 | 3830 | Contingent | W. L. Carruth..... | 32 65 |
| | 1185 | Physics & E. E. | W. E. Orr..... | 87 |
| | 1186 | Physics & E. E. | W. E. Orr et al..... | 9 68 |
| | 1187 | Steam plant..... | L. L. Ballard et al..... | 198 10 |
| | 1188 | Drawing | A. G. Sattler et al..... | 4 40 |
| | 1189 | Drawing | A. G. Sattler..... | 10 19 |
| | 1190 | Military | E. L. Myers..... | 25 |
| | 1191 | Military | F. Lechte..... | 1 00 |
| | 1192 | Military | J. R. Ramsey..... | 18 00 |
| | 1193 | Farm | Reese et al..... | 60 00 |
| Dec. 1, 1903 | 1194 | Campus & grounds..... | J. R. Johnson et al..... | 14 40 |
| | 1195 | Agricultural | J. H. B. Piper..... | 25 65 |
| | 1196 | Agricultural | R. E. Thweatt..... | 40 00 |
| | 1197 | Agricultural | R. E. Thweatt et al..... | 27 62 |
| | 1198 | Agricultural | C. E. Maedgen..... | 11 00 |
| | 1199 | Library | E. C. Evans et al..... | 10 00 |
| | 1200 | Library | J. M. Maxwell..... | 7 50 |
| | 1201 | Band | J. C. Burns et al..... | 70 00 |
| | 1202 | Contingent | W. A. Price..... | 25 00 |
| | 1203 | Contingent | Lee Carruth..... | 3 75 |
| Jan. 12, 1904 | 1204 | Book store | B. E. Hull..... | 7 50 |
| | 1205 | Contingent | B. E. Hull et al..... | 5 00 |
| | 1206 | Contingent | W. L. Carruth et al..... | 28 05 |
| | 1207 | Watchman | B. E. Hull et al..... | 60 00 |
| | 1208 | Civil Engineering..... | J. W. Benjamine..... | 12 25 |
| | 1209 | Campus | S. Farley..... | 4 44 |
| | 1210 | Chemical | G. W. Reese et al..... | 1 35 |
| | 1211 | Entomology | E. Scholl et al..... | 15 92 |
| | 1212 | Entomology | J. H. B. Piper..... | 6 88 |
| | 1213 | Horticulture | A. Marbach et al..... | 12 35 |
| Jan. 12, 1904 | 1214 | Horticulture | S. A. Minear et al..... | 3 95 |
| | 1846 | Hospital..... | J. Piper..... | 69 |
| | 1847 | Military | Myers et al..... | 7 88 |
| | 1848 | Military | F. Lichte..... | 88 |
| | 1849 | Chemical | S. C. Webb et al..... | 2 00 |
| | 1850 | Agricultural | Thweatt et al..... | 29 06 |
| | 1851 | Agricultural | H. A. Washburn..... | 13 50 |
| | 1852 | Agricultural | H. A. Washburn..... | 12 50 |
| | 1853 | Agricultural | R. W. Shanklin..... | 3 50 |
| | 1854 | Agricultural | R. W. Shanklin..... | 3 12 |
| Jan. 12, 1904 | 1855 | Agricultural | S. Youngblood..... | 22 12 |
| | 1856 | Agricultural | S. Youngblood..... | 12 12 |
| | 1857 | Agricultural | R. E. Thweatt..... | 8 00 |
| | 1858 | Contingent | B. Puryear..... | 1 85 |
| | 1859 | Contingent | R. B. Boettcher et al..... | 20 00 |
| | 1860 | Contingent | W. L. Carruth..... | 45 00 |
| | 1861 | Band | J. C. Burns et al..... | 70 00 |
| | 1862 | C. E..... | B. Puryear et al..... | 11 50 |
| | 1863 | Horticulture | T. B. Sammons et al..... | 12 05 |
| | 1864 | Book store | B. E. Hull..... | 7 50 |
| Jan. 12, 1904 | 1865 | Book store | B. E. Hull..... | 7 50 |
| | 1866 | Library | J. M. Maxwell..... | 7 50 |
| | 1867 | Entomology | D. Rodriguez..... | 2 25 |
| | 1868 | Campus | J. R. Johnson et al..... | 17 50 |
| | 1869 | Campus | J. R. Johnson..... | 20 11 |
| | 1870 | Drawing | A. G. Sattler..... | 12 00 |
| | 1871 | Physics & E. E. | W. C. Orr et al..... | 17 89 |
| | 1872 | Steam plant..... | L. L. Ballard et al..... | 148 95 |
| | 2065 | Horticulture | W. C. Boyce et al..... | 10 05 |
| | 2066 | Drawing | A. G. Sattler et al..... | 10 50 |
| Feb. 1, 1904 | 2067 | Agricultural | T. Sammons et al..... | 4 50 |
| | 2068 | Physics & E. E. | C. G. Brown et al..... | 50 25 |
| | 2069 | Campus | F. Eberspacher et al..... | 19 17 |
| | 2070 | Campus | Ehlers et al..... | 39 06 |
| | 2071 | Entomology | E. Scholl et al..... | 9 37 |

STUDENT LABOR ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|----------------|-------------|---------------------|----------------------------|---------|
| | 2072 | Entomology | E. Scholl et al..... | 11 98 |
| | 2073 | Band | J. C. Burns et al..... | 47 25 |
| | 2074 | Contingent | W. L. Carruth..... | 15 00 |
| | 2075 | Contingent | W. A. Price..... | 12 50 |
| | 2076 | Contingent | W. A. Price..... | 12 50 |
| | 2077 | Natatorium | J. H. Pirie..... | 45 50 |
| | 2078 | Library | J. E. Pirie..... | 7 50 |
| | 2079 | Contingent | B. Hull..... | 8 35 |
| | 2080 | Chemical | P. E. Cunningham..... | 1 10 |
| | 2081 | Library | J. E. Pirie..... | 7 50 |
| | 2312 | Band | J. C. Burns et al..... | 67 00 |
| | 2313 | Night Watchman..... | C. W. Boyce et al..... | 3 00 |
| | 2314 | Agricultural | L. McLennan et al..... | 30 24 |
| | 2315 | Physics & E. E..... | W. E. Orr et al..... | 7 75 |
| | 2316 | Physics & E. E..... | W. E. Orr et al..... | 24 63 |
| | 2317 | Steam plant..... | Breihan et al..... | 149 55 |
| | 2318 | Steam plant..... | Baines et al..... | 209 10 |
| | 2319 | C. E..... | J. W. Benjamin et al..... | 11 05 |
| | 2320 | C. E..... | E. L. Myers et al..... | 10 95 |
| | 2321 | Horticulture | J. Yocum et al..... | 13 20 |
| | 2322 | Horticulture | R. B. Boettcher et al..... | 4 75 |
| | 2323 | Entomological | Wheeler et al..... | 1 20 |
| | 2324 | Entomological | E. Scholl et al..... | 16 99 |
| | 2325 | Drawing | A. G. Sattler..... | 10 10 |
| | 2326 | Medical | J. Piper..... | 1 15 |
| | 2327 | Farm | Youngblood et al..... | 5 30 |
| | 2328 | Farm | Reese et al..... | 29 75 |
| | 2329 | Farm | Reese et al..... | 39 95 |
| | 2330 | Farm | Boettcher et al..... | 129 25 |
| Feb. 27, 1904 | 2528 | Campus | J. R. Johnson et al..... | 12 99 |
| | 2529 | Chemical | S. C. Webb et al..... | 20 70 |
| | 2530 | Agricultural | H. Baines et al..... | 3 37 |
| | 2531 | Agricultural | C. W. Boyce..... | 7 57 |
| | 2532 | Agricultural | G. H. Pope..... | 15 00 |
| Mch. 17, 1904 | 2758 | Contingent | L. Carruth..... | 15 00 |
| | 2759 | Contingent | W. A. Price..... | 12 50 |
| | 2760 | Contingent | J. H. Pirie..... | 15 00 |
| | 2761 | Band | J. C. Burns et al..... | 70 00 |
| | 2762 | Book store..... | B. E. Hull..... | 7 75 |
| | 2763 | Natatorium | J. H. Pirie..... | 15 00 |
| | 2764 | C. E..... | J. W. Benjamin et al..... | 11 80 |
| | 2765 | Campus | R. B. Deen et al..... | 15 06 |
| | 2766 | Campus | F. Eberspacher..... | 4 13 |
| | 2767 | Steam plant..... | J. M. Allen et al..... | 171 70 |
| | 2768 | Physics & E. E..... | R. H. Kinsloe et al..... | 46 93 |
| | 2769 | Drawing | A. G. Sattler et al..... | 8 54 |
| | 2770 | Entomology | Trenckmann et al..... | 23 09 |
| | 2771 | Horticulture | J. Yocum et al..... | 36 70 |
| | 2332 | Chemical | A. F. Wilson..... | 9 65 |
| | 2773 | Farm | T. Youngblood..... | 12 00 |
| | 2774 | Farm | C. W. Boyce..... | 8 93 |
| | 2775 | Farm | J. Ashton..... | 1 00 |
| | 2776 | Farm | R. W. Robinson et al..... | 9 00 |
| | 2777 | Farm | Forsgard et al..... | 16 50 |
| April 6, 1904 | 3000 | Steam plant..... | J. W. Miller..... | 8 85 |
| | 3001 | Farm | W. W. Price..... | 7 00 |
| | 3002 | Farm | Reese et al..... | 32 73 |
| | 3003 | Farm | J. L. McDonald..... | 7 50 |
| April 30, 1904 | 3454 | Physics & E. E..... | Kinsloe et al..... | 32 97 |
| | 3455 | Campus | Ramsay et al..... | 19 37 |
| | 3456 | Agricultural | C. E. Maedgen..... | 6 75 |
| | 3457 | Drawing | A. G. Sattler et al..... | 13 75 |
| | 3458 | Botanical | A. A. Wright..... | 2 50 |
| | 3459 | Campus | Breihan et al..... | 23 24 |
| | 3460 | Farm | J. F. Armstrong..... | 4 00 |
| | 3461 | Farm | J. A. Wessendorf..... | 10 75 |
| | 3462 | Farm | Boyce et al..... | 56 68 |
| | 3463 | Farm | E. M. Leary..... | 1 50 |
| | 3464 | Farm | R. S. Black et al..... | 10 55 |
| | 3465 | Steam plant..... | Allen et al..... | 138 85 |
| | 3466 | Entomological | E. S. Baines..... | 1 63 |
| | 3467 | Entomological | Holzman et al..... | 50 01 |
| | 3468 | Chemical | Carlyle et al..... | 6 70 |

STUDENT LABOR ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|---------------------|---------------------------|---------|
| May 10, 1904 | 3469 | Band | Burns et al..... | 60 00 |
| | 3470 | Horticulture | Glass et al..... | 26 70 |
| | 3471 | Horticultural | J. L. McDonald..... | 85 |
| | 3472 | C. E. | C. W. Boyce et al..... | 14 80 |
| | 3473 | Natatorium | J. H. Pirie..... | 15 00 |
| | 3474 | Natatorium | J. H. Pirie..... | 15 00 |
| | 3475 | Contingent | W. A. Price..... | 12 50 |
| | 3476 | Contingent | W. A. Price..... | 12 50 |
| | 3477 | Book store..... | B. E. Hull..... | 7 50 |
| | 3478 | Book store..... | B. E. Hull..... | 7 50 |
| | 3479 | Contingent | B. E. Hull..... | 5 75 |
| | 3480 | Contingent | B. E. Hull..... | 6 75 |
| | 3481 | Library | J. E. Pirie..... | 7 50 |
| | 3482 | Contingent | W. L. Carruth..... | 15 00 |
| | 3483 | Contingent | W. L. Carruth..... | 15 00 |
| | 3563 | Physics & E. E..... | W. E. Orr et al..... | 32 44 |
| | 3564 | Drawing | A. G. Sattler et al..... | 14 00 |
| | 3565 | Farm | Boyce et al..... | 21 88 |
| | 3566 | Farm | Reese et al..... | 30 00 |
| | 3567 | Farm | Forsgard et al..... | 11 45 |
| | 3568 | Steam plant..... | Allen et al..... | 121 50 |
| | 3569 | Entomological | Allen et al..... | 46 80 |
| | 3570 | Hospital | Farley et al..... | 1 80 |
| | 3571 | C. E. | E. L. Myers et al..... | 17 80 |
| | 3572 | Campus | Breihan et al..... | 36 34 |
| | 3573 | Chemical | A. F. Wilson et al..... | 24 05 |
| | 3574 | Chemical | H. A. Washburn et al..... | 3 05 |
| | 3575 | Contingent | H. A. Washburn et al..... | 2 43 |
| | 3576 | Contingent | H. A. Washburn et al..... | 87 |
| | 3577 | Band | Burns et al..... | 54 00 |
| | 3578 | Botanical | H. Bains..... | 7 48 |
| | 3579 | Horticultural | Miner et al..... | 83 45 |
| | 3580 | Agricultural | V. L. Ross et al..... | 7 24 |
| June 11, 1904 | 3865 | Agricultural | D. C. Culver et al..... | 12 88 |
| | 3866 | Agricultural | C. W. Boyce et al..... | 45 00 |
| | 3867 | Agricultural | T. P. Clonts et al..... | 6 88 |
| | 3868 | Agricultural | J. C. Burns et al..... | 2 57 |
| | 3869 | Agricultural | Forsgard et al..... | 6 60 |
| | 3870 | Physics | W. E. Orr..... | 37 98 |
| | 3872 | Entomological | Holzman et al..... | 2 93 |
| | 3873 | Military | G. H. Pope..... | 1 25 |
| | 3874 | Steam plant..... | Allen et al..... | 162 37 |
| | 3875 | Steam plant..... | Cobolini et al..... | 10 55 |
| | 3876 | Chemical | Carlyle et al..... | 9 90 |
| | 3877 | Drawing | A. G. Sattler..... | 15 13 |
| | 3878 | Drawing | S. W. Tuttle et al..... | 11 00 |
| | 3879 | C. E. | H. A. Gripon et al..... | 25 10 |
| | 3880 | Botanical | H. Bains et al..... | 2 00 |
| | 3881 | Botanical | A. A. Wright et al..... | 2 25 |
| | 3882 | Campus | M. C. Harrison et al..... | 3 00 |
| | 3883 | Campus | Clouts et al..... | 2 34 |
| | 3884 | Campus | Breihan et al..... | 42 60 |
| | 3885 | Horticultural | Wilhite et al..... | 120 80 |
| | 3886 | Horticultural | R. Tabor et al..... | 6 13 |
| | 3887 | Band | Burns et al..... | 63 00 |
| | 3888 | Band | Burns et al..... | 21 00 |
| | 3889 | Contingent | T. W. Blake..... | 10 87 |
| | 3890 | Contingent | J. E. Pirie..... | 7 50 |
| June 20, 1904 | 3891 | Contingent | B. E. Hull..... | 6 85 |
| | 3892 | Contingent | B. E. Hull..... | 7 50 |
| | 3893 | Contingent | W. L. Carruth..... | 15 00 |
| | 3894 | Contingent | J. H. Pirie..... | 15 00 |
| | 3895 | Contingent | W. A. Price..... | 12 50 |
| July 9, 1904 | 4015 | Physics | W. E. Orr..... | 8 00 |
| | 4016 | Military | V. Ehlers et al..... | 8 87 |
| | 4017 | Horticultural | J. J. Treadway..... | 2 85 |
| | 4018 | Agricultural | J. J. Treadway..... | 1 50 |
| | 4192 | Agricultural | W. H. Clouts..... | 5 18 |
| | 4193 | Agricultural | W. H. Clouts..... | 7 75 |
| | 4194 | Agricultural | L. L. Ballard..... | 31 25 |
| | 4195 | Agricultural | C. U. Woodman..... | 17 00 |
| | 4196 | Campus | Sattler et al..... | 53 00 |
| | 4213 | Horticultural | J. Yocom et al..... | 73 25 |

STUDENT LABOR ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|------------------------------------|-------------|---------------------|-----------------------------------|-------------|
| July 30, 1904 | 4311 | Entomological | Reese | 3 75 |
| | 4329 | Entomological | E. Scholl | 9 05 |
| Aug. 6, 1904 | 4330 | Agricultural | G. W. Buchanan | 60 80 |
| | 4372 | Agricultural | W. H. Clouts et al | 18 25 |
| | 4373 | Agricultural | W. H. Clouts et al | 4 50 |
| | 4374 | Agricultural | L. L. Ballard | 27 50 |
| | 3405 | Steam plant | J. M. Allen et al (correction) .. | 05 |
| Expended | | | | \$10,040 40 |
| Appropriation 1902-03.. \$5,000 00 | | | | |
| Appropriation 1903-04.. 5,000 00 | | | | 10,000 00 |
| By overcheck | | | | 40 40 |
| | | | | \$10,040 40 |
| | | | | \$10,040 40 |

SEWER PLANT ACCOUNT.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|----------------------------------|-------------|--------------------|---------------------------------|------------|
| Sept. 30, 1903 | 245 | Extension | H. & T. C. Ry. Co | 77 43 |
| Oct. 9, 1903 | 481 | Extension | R. Royal | 15 15 |
| Oct. 30, 1903 | 613 | Material | Mosheim Mfg. Co | 93 37 |
| | 614 | Material | San Antonio Sewer Pipe Co | 444 91 |
| Nov. 5, 1903 | 736 | Extension | Bering Cortez Hardware Co | 6 75 |
| | 820 | Extension | H. & T. C. Ry. Co | 4 06 |
| | 928 | Extension | Pacific Flush Tank Co | 123 50 |
| Dec. 5, 1903 | 1174 | Extension | C. L. & Theo. Berring | 21 90 |
| | 1175 | Extension | G. H. & Webb | 18 75 |
| | 1176 | Extension | Hill Bros. & Co | 11 85 |
| | 1261 | Extension | A. Fair et al | 183 00 |
| | 1263 | Extension | J. Washington et al | 110 00 |
| Dec. 10, 1903 | 1263 | Extension | Geo. Whyte | 6 00 |
| | 1331 | Extension | G. H. & Webb | 18 75 |
| | 1369 | Extension | A. Mell et al | 195 40 |
| | 1435 | Extension | G. H. & Webb | 11 00 |
| | 1436 | Extension | Hill Bros. & Co | 15 50 |
| | 1437 | Extension | W. Sips | 4 85 |
| | 1438 | Extension | F. W. Heitman & Co | 16 10 |
| Dec. 19, 1903 | 1439 | Extension | G. H. & Webb | 18 75 |
| | 1542 | Extension | G. White et al | 106 42 |
| | 1543 | Extension | T. Hudson et al | 20 25 |
| | 1544 | Extension | Dan Ward | 4 00 |
| Dec. 24, 1903 | 1545 | Extension | H. & T. C. Ry. Co | 28 80 |
| Jan. 22, 1904 | 1942 | Extension | San Antonio Sewer Pipe Co | 131 41 |
| Mch. 9, 1904 | 2689 | Labor | Ahren Ott Mfg. Co | 4 49 |
| Mch. 28, 1904 | 2801 | Labor | Dan Ward | 7 00 |
| | 2802 | Labor | Tom Hudson | 3 00 |
| April 6, 1904 | 2999 | Labor | Tom Hudson | 3 35 |
| April 15, 1904 | 3284 | Labor | T. Hudson | 1 50 |
| April 28, 1904 | 3316 | Labor | T. Hudson | 3 50 |
| April 30, 1904 | 3490 | Repairs | G. H. & Webb | 3 75 |
| | 3491 | Labor | G. H. & Webb | 2 50 |
| June 6, 1904 | 3491 | Labor | Dan Ward | 2 50 |
| | 3842 | Labor | Dan Ward | 6 00 |
| | 3843 | Labor | Dan Ward | 36 |
| Expended | | | | \$1,726 55 |
| Appropriation 1903-04 \$2,000 00 | | | | 2,000 00 |
| Balance | | | | \$273 45 |

GENERAL REPAIR ACCOUNT.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|----------------|-------------|-----------------------|--------------------------------|---------|
| Sept. 5, 1903 | 6 | On contract..... | B. H. Spawn..... | 375 00 |
| | 7 | On contract..... | B. H. Spawn..... | 492 50 |
| | 8 | On contract..... | Rudersdorf..... | 1200 00 |
| | 9 | On contract..... | Rudersdorf..... | 1000 00 |
| | 10 | Buildings..... | I. & G. N. Ry. Co..... | 26 60 |
| | 11 | Buildings..... | J. Adams..... | 45 50 |
| | 12 | Buildings..... | W. Thomas et al..... | 27 50 |
| | 13 | Buildings..... | W. Thomas..... | 15 00 |
| | 14 | Buildings..... | R. Jackson et al..... | 2 25 |
| | 15 | Buildings..... | Tom Hudson..... | 6 75 |
| | 16 | Buildings..... | Tom Hudson..... | 4 50 |
| | 17 | Buildings..... | H. & T. C. Ry. Co..... | 80 70 |
| | 18 | Buildings..... | H. & T. C. Ry. Co..... | 53 |
| | 19 | Buildings..... | Jim Hudson..... | 13 50 |
| | 20 | Buildings..... | Jim Hudson..... | 6 75 |
| | 21 | Buildings..... | N. F. Carson et al..... | 12 00 |
| | 22 | Buildings..... | N. F. Carson et al..... | 9 40 |
| | 23 | Buildings..... | D. Ward et al..... | 2 50 |
| | 24 | Buildings..... | Waco Electrical Supply Co..... | 125 33 |
| | 25 | Buildings..... | Waco Electrical Supply Co..... | 73 19 |
| | 26 | Buildings..... | Waco Electrical Supply Co..... | 49 68 |
| | 28 | Buildings..... | G. H. & Webb..... | 7 00 |
| | 29 | Buildings..... | G. H. & Webb..... | 6 75 |
| | 30 | Buildings..... | James Bute..... | 42 20 |
| | 80 | On contract..... | H. B. Lochhead..... | 125 00 |
| Sept. 14, 1903 | 81 | On contract..... | H. B. Spawn..... | 400 00 |
| | 82 | On contract..... | Jno. Rudersdorf..... | 1500 00 |
| | 83 | Buildings..... | T. Gammon..... | 15 00 |
| Sept. 17, 1903 | 86 | Buildings..... | B. H. Spawn..... | 300 00 |
| | 87 | Buildings..... | B. H. Spawn..... | 175 50 |
| | 88 | Buildings..... | John Rudersdorf..... | 317 70 |
| | 89 | Buildings..... | Ashmon Bros..... | 300 00 |
| Sept. 30, 1903 | 260 | Buildings..... | B. H. Spawn..... | 26 00 |
| | 261 | Buildings..... | J. Gammon..... | 15 00 |
| | 262 | Buildings..... | J. Gammon..... | 15 00 |
| | 263 | Buildings..... | J. Adams..... | 35 88 |
| | 264 | Buildings..... | H. Nicholson..... | 6 25 |
| | 265 | Expense..... | W. Fargo Express Co..... | 25 |
| Oct. 6, 1903 | 402 | Buildings..... | Ashman Bros..... | 847 10 |
| | 403 | Architects' fees..... | H. B. Longhead..... | 125 00 |
| Oct. 10, 1903 | 482 | Buildings..... | Lee Fipp et al..... | 27 00 |
| | 483 | Buildings..... | R. Spiller..... | 21 33 |
| | 484 | Buildings..... | J. H. Gammon..... | 15 00 |
| | 485 | Buildings..... | C. Bennett..... | 32 00 |
| Oct. 19, 1903 | 541 | Buildings..... | G. H. & Webb..... | 27 39 |
| | 542 | Buildings..... | G. H. & Webb..... | 75 04 |
| | 610 | Buildings..... | G. H. & Webb..... | 47 46 |
| | 611 | Buildings..... | C. L. & Theo. Bering..... | 5 00 |
| Nov. 5, 1903 | 737 | Buildings..... | J. A. Myers..... | 28 95 |
| | 738 | Buildings..... | Tyler Haswell..... | 6 60 |
| | 808 | Buildings..... | J. H. Gammon..... | 15 00 |
| | 809 | Buildings..... | J. H. Gammon..... | 13 75 |
| | 810 | Buildings..... | J. H. Gammon..... | 13 75 |
| | 811 | Buildings..... | J. H. Gammon..... | 15 00 |
| Nov. 7, 1903 | 888 | Paper, etc..... | R. F. Moore..... | 112 75 |
| | 889 | Buildings..... | G. H. & Webb..... | 33 08 |
| | 965 | Buildings..... | J. H. Gammon..... | 21 00 |
| | 966 | Buildings..... | J. H. Gammon..... | 15 00 |
| | 967 | Buildings..... | P. Wallace..... | 3 75 |
| Dec. 1, 1903 | 1078 | Buildings..... | G. H. & Webb..... | 108 91 |
| | 1079 | Buildings..... | G. H. & Webb..... | 107 56 |
| | 1080 | Buildings..... | Hill Bros & Co..... | 7 50 |
| | 1081 | Buildings..... | N. Randolph & Son..... | 36 08 |
| | 1082 | Buildings..... | J. A. Myers..... | 6 60 |
| | 1083 | Buildings..... | J. Gammon..... | 15 00 |
| | 1172 | Buildings..... | G. H. & Webb..... | 72 10 |
| | 1173 | Buildings..... | G. H. & Webb..... | 24 99 |
| Dec. 10, 1903 | 1342 | Buildings..... | J. A. Myers..... | 28 05 |
| | 1343 | Buildings..... | G. H. & Webb..... | 7 13 |
| | 1344 | Buildings..... | G. H. & Webb..... | 1 75 |
| | 1367 | Buildings..... | F. W. Winters..... | 1 00 |
| | 1368 | Buildings..... | J. H. Gammon..... | 15 00 |
| Dec. 24, 1903 | 1603 | Buildings..... | James Bute..... | 12 31 |
| Jan. 2, 1904 | 1689 | Buildings..... | G. H. & Webb..... | 69 91 |
| Jan. 9, 1904 | 1714 | Buildings..... | O. M. Ball..... | 6 50 |

GENERAL REPAIR ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|------------------------------------|-------------|--------------------|------------------------|------------|
| Jan. 12, 1904 | 1780 | Buildings | J. H. Gammon..... | 7 50 |
| | 1781 | Buildings | A. E. Withers..... | 5 90 |
| Jan. 22, 1904 | 1928 | Buildings | G. H. & Webb..... | 64 60 |
| | 1929 | Buildings | H. T. Lewis..... | 44 53 |
| Feb. 1, 1904 | 2048 | Buildings | G. H. & Webb..... | 1 44 |
| Feb. 20, 1904 | 2375 | Buildings | J. A. Myers..... | 10 15 |
| | 2376 | Buildings | G. H. & Webb..... | 5 35 |
| | 2462 | Buildings | G. H. & Webb..... | 2 78 |
| Feb. 27, 1904 | 2509 | Buildings | T. Hudson..... | 6 37 |
| Mch. 25, 1904 | 2797 | Buildings | G. H. & Webb..... | 750 00 |
| April 6, 1904 | 3998 | Buildings | A. E. Withers..... | 4 00 |
| | 3297 | Buildings | J. A. Myers..... | 3 60 |
| | 3314 | Buildings | G. H. & Webb..... | 44 16 |
| | 3315 | Buildings | N. Randolph & Son..... | 70 |
| June 6, 1904 | 3864 | Buildings | G. H. & Webb..... | 75 00 |
| Expended | | | | \$9,904 13 |
| Appropriation 1902-03.. \$2,500 00 | | | | |
| Appropriation 1903-04.. 10,000 00 | | | | 12,500 00 |
| Balance | | | | 2,595 87 |

BEEVILLE SUB-EXPERIMENT STATION ACCOUNT.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|----------------|-------------|---------------------------|---------------------------------|---------|
| Sept. 30, 1902 | 29 | Salary | J. A. Baker..... | 15 00 |
| Oct. 7, 1902 | 159 | Equipment & repairs | S. A. McHenry..... | 35 00 |
| | 160 | Equipment & repairs | M. Lichstinstine | 9 23 |
| | 161 | Equipment & repairs | W. O. Patten & Son..... | 11 35 |
| | 162 | Equipment & repairs | Am. Stove & Wire Co..... | 27 23 |
| | 163 | Equipment & repairs | Burrows Hardware Co..... | 100 98 |
| | 164 | Equipment & repairs | R. Law Lumber Co..... | 62 58 |
| Oct. 30, 1902 | 491 | Salary | J. A. Baker..... | 15 00 |
| Nov. 15, 1902 | 718 | Expense | E. C. Green..... | 9 25 |
| | 719 | Expense | W. D. Gibbs..... | 8 55 |
| | 720 | Expense | E. J. Kyle..... | 12 25 |
| | 721 | Expense | Beeville Irrigated Gardens..... | 24 06 |
| | 722 | Expense | C. E. Cochran..... | 6 15 |
| | 723 | Fertilizer | John Marbach..... | 25 00 |
| | 724 | Merchandise | Ferguson Neilson | 90 32 |
| | 725 | Salary | S. A. McHenry..... | 100 00 |
| | 726 | Labor | S. A. McHenry..... | 51 00 |
| | 727 | Equipment & repairs | S. A. McHenry..... | 35 50 |
| Nov. 27, 1902 | 735 | Salary and labor..... | S. A. McHenry..... | 158 00 |
| | 736 | Labor | S. A. McHenry..... | 12 32 |
| | 737 | Expense | Beeville Irrigated Gardens..... | 56 00 |
| | 738 | Equipment & repairs | Rhimbine Gasolene Co..... | 10 00 |
| Nov. 30, 1902 | 824 | Salary | J. A. Baker..... | 15 00 |
| Dec. 15, 1902 | 1036 | Salary | S. A. McHenry..... | 100 00 |
| | 1037 | Labor | S. A. McHenry..... | 5 90 |
| | 1038 | Labor | S. A. McHenry..... | 49 60 |
| Dec. 30, 1902 | 1205 | Salary | J. A. Baker..... | 15 00 |
| Jan. 12, 1903 | 1313 | Salary and labor..... | S. A. McHenry..... | 120 00 |
| | 1314 | Labor | S. A. McHenry..... | 7 35 |
| | 1315 | Expense and labor..... | Livingston Seed Co..... | 1 27 |
| | 1316 | Expense | Austin Book & Stationery Co.... | 1 51 |
| Jan. 26, 1903 | 1525 | Merchandise | T. E. Munson & Son..... | 16 00 |
| | 1526 | Merchandise | T. E. Munson & Son..... | 16 00 |
| | 1525 | Merchandise | T. E. Munson & Son..... | 3 70 |
| Jan. 30, 1903 | 1623 | Salary | J. A. Baker..... | 15 00 |
| Feb. 10, 1903 | 1628 | Salary and labor..... | S. A. McHenry..... | 146 50 |
| | 1629 | Seed | Glen St. Mary Nurseries..... | 2 30 |
| | 1630 | Seed | Plant Seed Co..... | 4 28 |

BEEVILLE SUB-EXPERIMENT STATION ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|----------------|-------------|--------------------------|---------------------------------|---------|
| | 1631 | Seed | W. A. Bumper & Co..... | 2 70 |
| | 1776 | Expense | W. U. Tel. Co..... | 40 |
| Feb. 25, 1903 | 1872 | Merchandise | Burrows Hardware Co..... | 6 20 |
| | 1873 | Merchandise | W. C. Gunlock..... | 10 00 |
| | 1874 | Merchandise | J. W. Toorney..... | 16 50 |
| | 1875 | Merchandise | Burrows Hardware Co..... | 65 49 |
| Feb. 28, 1903 | 1953 | Salary | J. A. Baker..... | 15 00 |
| | 1981 | Salary and labor..... | S. A. McHenry..... | 140 00 |
| | 1982 | Merchandise | Gregory & August..... | 5 00 |
| Mch. 19, 1903 | 2217 | Merchandise | Texas Floral & Nursery Co..... | 2 50 |
| Mch. 30, 1903 | 2266 | Salary | J. A. Baker..... | 15 00 |
| | 2295 | Salary | S. A. McHenry..... | 139 35 |
| | 2296 | Salary and labor..... | S. A. McHenry..... | 24 30 |
| April 15, 1903 | 2354 | Equipment & repairs..... | R. Law Lumber Co..... | 31 60 |
| | 2355 | Expense | R. Law Lumber Co..... | 20 82 |
| | 2510 | Expense | W. D. Gibbs..... | 6 00 |
| April 30, 1903 | 2701 | Salary | J. A. Baker..... | 15 00 |
| May 21, 1903 | 2741 | Salary | S. A. McHenry..... | 150 00 |
| | 2742 | Merchandise | Ferguson & Nielson..... | 36 45 |
| | 2743 | Repairs | Cuero Machine Shops..... | 1 00 |
| May 30, 1903 | 3033 | Salary | J. A. Baker..... | 15 00 |
| June 10, 1903 | 3123 | Salary and labor..... | S. A. McHenry..... | 150 00 |
| | 3124 | Salary and labor..... | S. A. McHenry..... | 4 75 |
| | 3125 | Expense | Houston Packing Co..... | 10 80 |
| | 3126 | Merchandise | Kohler & Heldenfels..... | 9 78 |
| | 3127 | Merchandise | Ferguson & Nielson..... | 36 35 |
| June 30, 1903 | 3374 | Salary | J. A. Baker..... | 15 00 |
| July 16, 1903 | 3528 | Expense | B. C. Pittuck..... | 7 50 |
| | 3532 | Salary and labor..... | S. A. McHenry..... | 132 75 |
| July 30, 1903 | 3572 | Salary | J. A. Baker..... | 15 00 |
| Aug. 1, 1903 | 3642 | Expense | E. C. Green..... | 4 50 |
| Aug. 15, 1903 | 3673 | Salary and expense..... | S. A. McHenry..... | 126 00 |
| | 3674 | Labor | S. A. McHenry..... | 4 50 |
| Aug. 30, 1903 | 3751 | Salary | J. A. Baker..... | 15 00 |
| Oct. 30, 1903 | 693 | Salary | S. A. McHenry..... | 100 00 |
| | 694 | Merchandise | Burrows Hardware Co..... | 114 35 |
| | 695 | Freight | W. C. Boyett, Agent..... | 9 13 |
| | 696 | Merchandise | R. Law Hardware Co..... | 19 32 |
| | 697 | Merchandise | Ferguson & Nielson..... | 13 45 |
| | 698 | Merchandise | Wm. Henry Maule..... | 4 55 |
| | 699 | Merchandise | Plant Seed Co..... | 8 65 |
| | 700 | Expense | Beeville Irrigated Gardens..... | 7 60 |
| | 564 | Merchandise | Burles Hardware Co..... | 30 95 |
| | 702 | Merchandise | Johnson & Stokes..... | 7 90 |
| Nov. 5, 1903 | 714 | Expense | J. K. Robertson..... | 19 25 |
| | 715 | Salary | J. K. Robertson..... | 84 68 |
| | 716 | Salary | Wm. McHenry..... | 9 75 |
| | 717 | Labor | R. Boling..... | 4 30 |
| | 718 | Labor | J. D. Buffington..... | 34 45 |
| Nov. 20, 1903 | 931 | Labor | J. K. Robertson..... | 99 08 |
| | 932 | Labor | J. K. Robertson..... | 17 53 |
| | 933 | Seed | W. H. Maule..... | 2 10 |
| | 934 | Seed | Plant Seed Co..... | 1 30 |
| | 935 | Seed | W. A. Burpee Co..... | 1 49 |
| | 936 | Labor | Geo. Konce..... | 18 75 |
| | 937 | Labor | Wm. McHenry..... | 16 00 |
| | 938 | Merchandise | J. Buffington..... | 24 90 |
| Dec. 1, 1903 | 1178 | Merchandise | Ferguson & Nielson..... | 6 00 |
| Dec. 5, 1903 | 1264 | Labor | J. K. Robertson..... | 4 83 |
| | 1265 | Salary and labor..... | J. K. Robertson..... | 150 28 |
| Dec. 17, 1903 | 1503 | Mules | D. C. Rakin..... | 225 00 |
| Jan. 9, 1904 | 1762 | Salary and labor..... | J. K. Robertson..... | 134 70 |
| | 1763 | Labor | J. K. Robertson..... | 10 90 |
| Jan. 22, 1904 | 1937 | Seed | Austin Nursery..... | 3 00 |
| | 1938 | Seed | Glen St. Mary Nurseries..... | 12 80 |
| | 2139 | Salary and labor..... | J. K. Robertson..... | 139 48 |
| | 2140 | Merchandise | W. W. Thomas..... | 2 88 |
| | 2141 | Merchandise | Johnson & Stokes..... | 3 00 |
| | 2142 | Labor | J. K. Robertson..... | 12 91 |
| Feb. 20, 1904 | 2373 | Merchandise | Burrows Hardware Co..... | 44 92 |
| | 2374 | Merchandise | R. Law Lumber Co..... | 8 59 |
| Mch. 17, 1904 | 2717 | Merchandise | Austin Nursery..... | 1 88 |
| | 2791 | Salary and labor..... | J. K. Robertson..... | 145 03 |
| | 2792 | Labor | J. K. Robertson..... | 22 48 |
| | 2793 | Seed | W. A. Burpee..... | 3 45 |

BEEVILLE SUB-EXPERIMENT STATION ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|----------------------------------|-------------|------------------------|--------------------------|------------|
| April 6, 1904 | 3004 | Expense | E. C. Green..... | 9 70 |
| April 8, 1904 | 3059 | Salary and labor | J. K. Robertson..... | 162 58 |
| | 3060 | Labor | J. K. Robertson..... | 17 15 |
| | 3061 | Fertilizer | Standard G. & C. Co..... | 10 25 |
| April 15, 1904 | 3257 | Expense | J. A. Craig..... | 21 10 |
| May 5, 1904 | 3525 | Salary and labor | J. K. Robertson..... | 149 68 |
| | 3526 | Labor | J. K. Robertson..... | 42 20 |
| | 3527 | Merchandise | Burrows Hardware Co..... | 53 43 |
| June 20, 1904 | 4001 | Salary and labor | J. K. Robertson..... | 151 50 |
| | 4002 | Labor | J. K. Robertson..... | 38 35 |
| July 6, 1904 | 4158 | Merchandise | Ferguson & Neilson..... | 13 00 |
| July 9, 1904 | 4227 | Salary and labor | J. K. Robertson..... | 148 18 |
| | 4228 | Labor | J. K. Robertson..... | 120 55 |
| Aug. 6, 1904 | 4384 | Salary and labor | J. K. Robertson..... | 157 28 |
| | 4385 | Labor | J. K. Robertson..... | 100 25 |
| | 4386 | Merchandise | Ferguson & Nielson..... | 13 45 |
| | 4887 | Merchandise | R. Law Lumber Co..... | 17 75 |
| Expended | | | | \$5,451 93 |
| Appropriation 1902-03 \$2,500 00 | | | | |
| Appropriation 1903-04 \$3,000 00 | | | | |
| Balance | | | | \$48 07 |
| | | | | \$5,500 00 |
| | | | | \$5,500 00 |

TROUPE SUB-EXPERIMENT STATION ACCOUNT.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|----------------|-------------|----------------------|---------------------------------|---------|
| Sept. 30, 1902 | 56 | Contract | S. M. Swindall..... | 615 00 |
| Oct. 7, 1902 | 152 | Contract | S. M. Swindall..... | 500 00 |
| | 154 | Fertilizer | G. C. Street & Co..... | 13 25 |
| | 155 | Salary | E. P. Stiles..... | 6 97 |
| | 156 | Hardware | T. W. Brazelton & Co..... | 90 |
| | 157 | Sundries | First Nat. Bank, Troupe..... | 19 00 |
| | 158 | Fertilizer | Va. Ca. Chemical Co..... | 58 75 |
| | 165 | Salary | E. P. Stiles..... | 75 00 |
| | 166 | Salary | N. T. Coons..... | 40 00 |
| | 167 | Labor | E. P. Stiles..... | 15 90 |
| | 168 | Labor | E. P. Stiles..... | 11 70 |
| | 169 | Labor | E. P. Stiles..... | 13 50 |
| Oct. 15, 1902 | 201 | Labor..... | S. M. Swindall..... | 697 75 |
| Oct. 20, 1902 | 389 | First Nat. Bank..... | W. D. Gibbs..... | 9 20 |
| | 390 | First Nat. Bank..... | R. R. Hemphill..... | 25 |
| Nov. 5, 1902 | 517 | First Nat. Bank..... | S. M. Swindall..... | 975 00 |
| | 520 | First Nat. Bank..... | E. P. Stiles..... | 75 00 |
| Nov. 6, 1902 | 521 | First Nat. Bank..... | E. P. Stiles..... | 21 20 |
| | 522 | First Nat. Bank..... | E. P. Stiles..... | 21 25 |
| | 523 | First Nat. Bank..... | E. P. Stiles..... | 6 97 |
| | 524 | First Nat. Bank..... | E. P. Stiles..... | 80 42 |
| | 525 | First Nat. Bank..... | N. T. Coons..... | 40 00 |
| | 526 | First Nat. Bank..... | Texas Seed & Floral Co..... | 7 60 |
| | 527 | First Nat. Bank..... | W. L. Bedingfield..... | 7 50 |
| | 528 | First Nat. Bank..... | James Pontracy..... | 5 00 |
| Nov. 11, 1902 | 636 | First Nat. Bank..... | J. H. Bothwell..... | 115 58 |
| | 637 | First Nat. Bank..... | E. J. Stiles..... | 64 75 |
| | 638 | First Nat. Bank..... | E. J. Stiles..... | 25 13 |
| | 639 | First Nat. Bank..... | Jarvis & Co..... | 15 86 |
| | 640 | First Nat. Bank..... | J. Partney..... | 11 85 |
| Nov. 15, 1902 | 729 | First Nat. Bank..... | S. M. Swindall, Est. No. 5..... | 696 75 |
| Nov. 27, 1902 | 730 | First Nat. Bank..... | Texas Seed & Floral Co..... | 20 43 |
| | 731 | First Nat. Bank..... | I. & G. N. Ry. Co..... | 5 96 |
| | 732 | First Nat. Bank..... | J. M. Murphey..... | 1 05 |
| | 733 | First Nat. Bank..... | Collins & Spence..... | 90 |
| | 734 | First Nat. Bank..... | T. E. McKay & Co..... | 2 40 |

TROUPE SUB-EXPERIMENT STATION ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|---------------|-------------|----------------------|----------------------------------|---------|
| | 777 | First Nat. Bank..... | Texas Seed & Floral Co..... | 19 80 |
| | 778 | First Nat. Bank..... | F. W. Heitman & Co..... | 18 32 |
| | 779 | First Nat. Bank..... | E. P. Stiles..... | 3 85 |
| | 780 | First Nat. Bank..... | J. W. Milton & Son..... | 10 45 |
| | 781 | First Nat. Bank..... | Floon & Cross..... | 1 00 |
| | 782 | First Nat. Bank..... | S. M. Swindall..... | 1 05 |
| | 783 | First Nat. Bank..... | Partney, Mrs. J..... | 3 75 |
| Dec. 10, 1902 | 953 | First Nat. Bank..... | E. J. Kyle..... | 5 40 |
| | 954 | First Nat. Bank..... | E. C. Green..... | 3 75 |
| | 955 | First Nat. Bank..... | W. D. Gibbs..... | 4 45 |
| Dec. 15, 1902 | 1026 | First Nat. Bank..... | W. R. Mitchell..... | 2 25 |
| | 1027 | First Nat. Bank..... | N. T. Coons..... | 34 75 |
| | 1028 | First Nat. Bank..... | E. P. Stiles..... | 75 00 |
| | 1029 | First Nat. Bank..... | I. & G. N. Ry. Co..... | 3 12 |
| | 1030 | First Nat. Bank..... | R. R. Dillard..... | 2 10 |
| | 1031 | First Nat. Bank..... | Scott Bedingfield..... | 7 25 |
| | 1032 | First Nat. Bank..... | Austin Nursery..... | 20 00 |
| | 1033 | First Nat. Bank..... | T. V. Munson & Son..... | 10 68 |
| | 1034 | First Nat. Bank..... | W. S. Bedingfield..... | 6 50 |
| | 1035 | First Nat. Bank..... | James Partney..... | 9 25 |
| Dec. 20, 1902 | 1093 | First Nat. Bank..... | S. N. Swindell..... | 280 50 |
| Dec. 30, 1902 | 1121 | First Nat. Bank..... | E. C. Green..... | 7 20 |
| | 1122 | First Nat. Bank..... | E. J. Kyle..... | 5 25 |
| | 1123 | First Nat. Bank..... | W. D. Gibbs..... | 5 70 |
| | 1221 | First Nat. Bank..... | E. P. Stiles..... | 75 00 |
| | 1222 | First Nat. Bank..... | N. T. Coons..... | 39 50 |
| | 1223 | First Nat. Bank..... | T. W. Brazelton & Co..... | 12 88 |
| | 1224 | First Nat. Bank..... | E. P. Stiles..... | 4 40 |
| | 1225 | First Nat. Bank..... | Tyler Box & Lumber Co..... | 2 16 |
| Jan. 1, 1903 | 1226 | First Nat. Bank..... | S. M. Swindall..... | 191 25 |
| Jan. 12, 1903 | 1303 | First Nat. Bank..... | John Darby..... | 104 70 |
| | 1304 | First Nat. Bank..... | W. S. Bedingfield..... | 10 00 |
| | 1305 | First Nat. Bank..... | F. S. Seale..... | 13 00 |
| | 1306 | First Nat. Bank..... | A. M. Branson..... | 9 50 |
| | 1307 | First Nat. Bank..... | Shaw & Wilkinson..... | 1 38 |
| | 1308 | First Nat. Bank..... | V. E. Edwards..... | 4 50 |
| | 1309 | First Nat. Bank..... | Seale & Mitchell..... | 1 40 |
| | 1310 | First Nat. Bank..... | H. J. Endel..... | 7 74 |
| | 1311 | First Nat. Bank..... | The Dening Co..... | 18 41 |
| | 1312 | First Nat. Bank..... | Austin Book & Stationery Co..... | 1 00 |
| | 1383 | First Nat. Bank..... | E. C. Green..... | 3 15 |
| | 1384 | First Nat. Bank..... | Wells Fargo Express Co..... | 40 |
| | 1515 | First Nat. Bank..... | W. S. Bedingfield..... | 2 00 |
| | 1516 | First Nat. Bank..... | Gus Jarvis..... | 5 00 |
| | 1517 | First Nat. Bank..... | Chas. Partney..... | 2 00 |
| | 1518 | First Nat. Bank..... | P. J. Buckmans & Co..... | 6 23 |
| | 1519 | First Nat. Bank..... | Willie Wright..... | 55 |
| | 1520 | First Nat. Bank..... | First Nat. Bank..... | 3 00 |
| Jan. 26, 1903 | 1521 | First Nat. Bank..... | H. Clay..... | 8 00 |
| | 1522 | First Nat. Bank..... | T. J. Milam..... | 3 90 |
| | 1523 | First Nat. Bank..... | F. Seale..... | 10 00 |
| | 1524 | First Nat. Bank..... | Jas. Partney..... | 15 00 |
| | 1566 | First Nat. Bank..... | W. F. Express Co..... | 16 40 |
| Jan. 30, 1903 | 1625 | First Nat. Bank..... | N. F. Coons..... | 40 00 |
| | 1626 | First Nat. Bank..... | E. P. Stiles..... | 75 00 |
| Feb. 10, 1903 | 1632 | First Nat. Bank..... | E. P. Stiles..... | 3 85 |
| | 1633 | First Nat. Bank..... | Va. Ca. Chemical Co..... | 89 82 |
| | 1634 | First Nat. Bank..... | G. M. Hancock..... | 8 00 |
| | 1635 | First Nat. Bank..... | J. M. Partney..... | 4 90 |
| | 1636 | First Nat. Bank..... | F. Seale..... | 9 20 |
| | 1637 | First Nat. Bank..... | W. R. Allen..... | 17 15 |
| | 1638 | First Nat. Bank..... | A. P. Smythe..... | 14 30 |
| | 1777 | First Nat. Bank..... | W. S. Gibbs..... | 9 55 |
| | 1778 | First Nat. Bank..... | W. U. Tel. Co..... | 25 |
| | 1779 | First Nat. Bank..... | B. C. Pittuck..... | 13 00 |
| Feb. 25, 1903 | 1856 | First Nat. Bank..... | S. Swindall..... | 206 25 |
| | 1857 | First Nat. Bank..... | Lee Moore..... | 2 50 |
| | 1858 | First Nat. Bank..... | J. M. Norwood..... | 1 50 |
| | 1859 | First Nat. Bank..... | W. A. Burpee & Co..... | 27 |
| | 1860 | First Nat. Bank..... | Shreveport Fert. Co..... | 3 50 |
| | 1861 | First Nat. Bank..... | Kenyon Hardware Co..... | 4 30 |
| | 1862 | First Nat. Bank..... | Jarvis & Co..... | 16 42 |
| | 1863 | First Nat. Bank..... | T. W. Woods & Son..... | 75 |
| | 1864 | First Nat. Bank..... | Van Edwards..... | 1 50 |
| | 1865 | First Nat. Bank..... | Button & Hamilton..... | 13 77 |

TROUPE SUB-EXPERIMENT STATION ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|----------------|-------------|----------------------|-----------------------------|---------|
| | 1866 | First Nat. Bank..... | J. W. Smith..... | 16 75 |
| | 1867 | First Nat. Bank..... | John S. Kerr..... | 1 84 |
| | 1868 | First Nat. Bank..... | J. Partney..... | 7 75 |
| | 1869 | First Nat. Bank..... | J. Partney..... | 3 50 |
| | 1870 | First Nat. Bank..... | F. Seale..... | 9 50 |
| | 1871 | First Nat. Bank..... | F. Seale..... | 7 00 |
| Mch. 19, 1903 | 2218 | First Nat. Bank..... | S. M. Swindall..... | 1000 00 |
| | 2219 | First Nat. Bank..... | J. H. Bothwell..... | 115 58 |
| | 2220 | First Nat. Bank..... | E. C. Green..... | 47 49 |
| April 8, 1903 | 2281 | First Nat. Bank..... | Tyler Box & Lumber Co..... | 2 16 |
| | 2282 | First Nat. Bank..... | Shreveport Fert. Co..... | 3 50 |
| | 2283 | First Nat. Bank..... | Kenyon Hardware Co..... | 4 30 |
| | 2284 | First Nat. Bank..... | Butter & Hamilton..... | 13 77 |
| | 2285 | First Nat. Bank..... | F. Seale..... | 7 00 |
| | 2286 | First Nat. Bank..... | F. Seale..... | 9 50 |
| | 2287 | First Nat. Bank..... | Lee Moore..... | 2 50 |
| | 2288 | First Nat. Bank..... | J. Partney..... | 3 50 |
| | 2289 | First Nat. Bank..... | J. W. Smith..... | 16 75 |
| | 2290 | First Nat. Bank..... | Van Edwards..... | 1 50 |
| | 2291 | First Nat. Bank..... | W. U. Tel. Co..... | 25 |
| | 2292 | First Nat. Bank..... | W. D. Gibbs..... | 9 55 |
| | 2293 | First Nat. Bank..... | B. C. Pittuck..... | 13 00 |
| | 2297 | Salary..... | E. C. Green..... | 66 60 |
| | 2298 | Labor..... | L. J. Bridges..... | 50 |
| | 2299 | Merchandise..... | Collins & Spence..... | 1 05 |
| | 2300 | Merchandise..... | Lanham & Richard..... | 2 19 |
| | 2301 | Merchandise..... | D. Landreth & Son..... | 4 56 |
| | 2302 | Merchandise..... | Texas Seed & Floral Co..... | 3 95 |
| | 2303 | Merchandise..... | W. A. Burpee & Co..... | 4 08 |
| | 2304 | Merchandise..... | J. M. Thorburn & Co..... | 14 67 |
| | 2305 | Merchandise..... | T. W. Woods & Son..... | 3 80 |
| | 2306 | Merchandise..... | D. W. Ferry & Co..... | 3 08 |
| | 2307 | Merchandise..... | J. Steckler Seed Co..... | 11 98 |
| | 2308 | Merchandise..... | J. Estell..... | 3 00 |
| | 2309 | Merchandise..... | J. E. Elmore..... | 3 75 |
| | 2310 | Labor..... | F. Seale..... | 50 |
| | 2311 | Labor..... | T. W. Ivey..... | 1 00 |
| | 2312 | Labor..... | J. Partney..... | 1 75 |
| | 2313 | Merchandise..... | Jarvis & Co..... | 18 01 |
| | 2314 | Merchandise..... | J. M. Murphey..... | 3 85 |
| | 2315 | Merchandise..... | Shaw & Wilkinson..... | 4 30 |
| | 2316 | Merchandise..... | Tyler Cotton Oil Co..... | 4 30 |
| | 2317 | Merchandise..... | John Moore..... | 1 00 |
| | 2318 | Merchandise..... | T. E. McKay & Co..... | 65 |
| | 2319 | Merchandise..... | Richardt & Schutte..... | 1 45 |
| April 15, 1903 | 2320 | Merchandise..... | A. J. Becker..... | 8 10 |
| | 2321 | Merchandise..... | W. J. Brittain..... | 12 00 |
| | 2322 | Merchandise..... | T. W. Brazelton & Co..... | 26 75 |
| | 2406 | Merchandise..... | Standard Guano Co..... | 20 88 |
| | 2407 | Merchandise..... | C. P. Melton..... | 1 45 |
| | 2408 | Labor..... | W. F. Coons..... | 14 65 |
| | 2409 | Merchandise..... | Adams Hardware Co..... | 16 00 |
| | 2410 | Merchandise..... | James & Race..... | 20 00 |
| | 2411 | Freight..... | I. & G. N. Ry. Co..... | 20 56 |
| | 2412 | Labor..... | James Dean..... | 4 75 |
| | 2413 | Merchandise..... | B. F. Avery & Sons..... | 32 50 |
| | 2414 | Merchandise..... | Reichardt & Schulte..... | 12 30 |
| | 2415 | Merchandise..... | F. Lowry..... | 2 00 |
| | 2511 | Expense..... | W. D. Gibbs..... | 15 20 |
| | 2512 | Expense..... | B. C. Pittuck..... | 4 50 |
| | 2513 | Expense..... | W. C. Green..... | 3 40 |
| | 2514 | Expense..... | W. U. Tel. Co..... | 40 |
| May 21, 1903 | 2744 | Seed..... | Texas Seed & Floral Co..... | 4 30 |
| | 2745 | Seed..... | Texas Seed & Floral Co..... | 3 55 |
| | 2746 | Seed..... | Texas Seed & Floral Co..... | 1 00 |
| | 2747 | Expense..... | S. W. Tel. & Tel. Co..... | 1 30 |
| | 2748 | Labor..... | W. W. Thomas..... | 5 95 |
| May 22, 1903 | 2986 | Salary..... | E. C. Green..... | 99 03 |
| June 10, 1903 | 3075 | Salary..... | E. C. Green..... | 108 21 |
| | 3246 | Expense and salary.. | W. D. Gibbs..... | 3 40 |
| June 30, 1903 | 3392 | Salary..... | E. C. Green..... | 61 28 |
| Aug. 6, 1903 | 3658 | Labor..... | John Estelle..... | 5 50 |
| | 3659 | Labor..... | J. A. Moore..... | 5 50 |
| | 3660 | Labor..... | Joe Lindsay..... | 6 25 |
| Aug. 25, 1903 | 3796 | Labor..... | F. E. McKay..... | 2 70 |

TROUPE SUB-EXPERIMENT STATION ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|----------------|-------------|----------------------|------------------------------|---------|
| | 3707 | Merchandise | Kenyon Hardware Co..... | 3 75 |
| | 3708 | Merchandise | Floore & Cross..... | 9 80 |
| Sept. 14, 1903 | 84 | Salary | E. C. Green..... | 131 03 |
| | 85 | Salary | E. C. Green..... | 22 90 |
| Sept. 21, 1903 | 109 | Labor | J. Estelle | 8 00 |
| | 110 | Labor | J. A. Moore..... | 8 00 |
| Oct. 10, 1903 | 471 | Salary | W. S. Hotchkiss..... | 100 00 |
| | 472 | Labor | J. A. Moore..... | 10 00 |
| | 473 | Labor | J. Estelle | 10 00 |
| Oct. 9, 1903 | 560 | Merchandise | Brazelton & Johnson..... | 4 55 |
| | 561 | Merchandise | B. F. Avery & Sons..... | 3 47 |
| | 562 | Merchandise | Morrill & Marley..... | 38 85 |
| | 563 | Merchandise | R. T. Bradford..... | 7 50 |
| Nov. 5, 1903 | 704 | Salary | W. D. Hotchkiss..... | 100 00 |
| | 705 | Labor | W. D. Hotchkiss..... | 7 00 |
| | 706 | Labor | W. D. Hotchkiss..... | 11 36 |
| | 707 | Labor | C. H. McNeil..... | 14 00 |
| | 708 | Merchandise | Texas Seed & Floral Co..... | 90 |
| | 709 | Merchandise | J. W. Melton, Jr..... | 5 00 |
| | 710 | Merchandise | Texas Seed & Floral Co..... | 5 60 |
| | 711 | Merchandise | P. J. Berckman Co..... | 15 00 |
| | 712 | Labor | J. Estelle | 11 50 |
| | 713 | Labor | A. J. Moore..... | 12 00 |
| | 929 | Merchandise | Brazelton & Johnson..... | 13 65 |
| Dec. 10, 1903 | 1346 | Buildings | Horton & McGinney..... | 463 00 |
| Dec. 17, 1903 | 1422 | Salary | W. D. Hotchkiss..... | 100 00 |
| | 1423 | Labor | W. D. Hotchkiss..... | 51 37 |
| | 1424 | Labor | C. H. McNeil..... | 26 00 |
| | 1425 | Labor | John Estelle | 9 00 |
| | 1426 | Merchandise | B. F. Avery & Sons..... | 3 96 |
| Dec. 19, 1903 | 1534 | Expense | E. C. Green..... | 6 10 |
| Jan. 22, 1904 | 1939 | Expense | B. L. Adams..... | 4 32 |
| | 1940 | Expense | J. A. Bair..... | 10 40 |
| | 1941 | Expense | J. S. Kerr..... | 65 |
| Feb. 4, 1904 | 2143 | Merchandise | L. J. Berckmans Co..... | 42 67 |
| | 2144 | Merchandise | Texas Seed & Floral Co..... | 1 30 |
| | 2145 | Merchandise | J. R. Adams Hardware Co..... | 3 30 |
| | 2146 | Merchandise | Brazelton & Johnson..... | 25 68 |
| | 2147 | Merchandise | P. J. Berckmans Co..... | 2 00 |
| | 2148 | Merchandise | J. M. Thornburn & Co..... | 2 75 |
| | 2149 | Merchandise | C. H. McNiel..... | 28 00 |
| | 2150 | Salary | W. S. Hotchkiss..... | 100 00 |
| | 2151 | Merchandise | B. F. Avery & Sons..... | 4 09 |
| | 2152 | Labor | W. D. Hotchkiss..... | 76 57 |
| Feb. 9, 1904 | 2205 | Merchandise | T. V. Munson & Son..... | 2 18 |
| | 2269 | Expense | Pacific Express Co..... | 1 25 |
| Feb. 27, 1904 | 2467 | Seed | Austin Nursery | 4 42 |
| | 2559 | Architect fees | J. H. Bothwell..... | 100 00 |
| Mch. 9, 1904 | 2565 | Salary | W. D. Hotchkiss..... | 100 00 |
| | 2566 | Labor | W. D. Hotchkiss..... | 51 19 |
| | 2567 | Seed | W. A. Burpee & Co..... | 8 65 |
| | 2568 | Seed | J. R. Adams..... | 4 34 |
| | 2569 | Seed | D. V. Bunell..... | 85 |
| | 2570 | Seed | Texas Seed & Floral Co..... | 5 95 |
| | 2571 | Seed | F. Barteldes & Co..... | 1 75 |
| | 2572 | Fertilizer | Va. Ca. Chemical Co..... | 7 35 |
| | 2573 | Seed | Iowa Seed Co..... | 80 |
| | 2574 | Seed | Tyler Cotton Oil Co..... | 50 00 |
| | 2575 | Seed | Steckler Seed Co..... | 2 68 |
| | 2576 | Merchandise | C. H. McNeil..... | 24 00 |
| | 2718 | Merchandise | B. W. Stone & Co..... | 10 50 |
| Mch. 28, 1904 | 2812 | Expense | E. J. Kyle..... | 1 50 |
| April 6, 1904 | 3005 | Expense | E. E. Risien..... | 5 00 |
| April 8, 1904 | 3062 | Salary | W. S. Hotchkiss..... | 100 00 |
| | 3063 | Labor | W. S. Hotchkiss..... | 102 70 |
| | 3064 | Merchandise | C. H. McNeal..... | 33 50 |
| | 3065 | Merchandise | Brazelton & Johnson..... | 4 68 |
| | 3066 | Merchandise | D. S. Lake..... | 2 10 |
| | 3067 | Merchandise | Keating Implement Co..... | 1 60 |
| | 3068 | Merchandise | J. A. Adams Hardware Co..... | 10 80 |
| | 3069 | Merchandise | J. A. Adams Hardware Co..... | 8 70 |
| April 15, 1904 | 3254 | Expense | E. C. Green..... | 9 60 |
| May 15, 1904 | 3485 | Labor | W. S. Hotchkiss..... | 155 32 |
| | 3484 | Salary | W. S. Hotchkiss..... | 100 00 |
| | 3630 | Seed | Texas Seed & Floral Co..... | 2 85 |

TROUPE SUB-EXPERIMENT STATION ACCOUNT—continued.

| Date. | Voucher No. | For what expended. | To whom paid. | Amount. |
|--|-------------|------------------------|---------------------------|-------------|
| June 20, 1904 | 4093 | Salary and expense.... | W. S. Hotchkiss..... | 198 80 |
| July 6, 1904 | 4132 | Salary and expense .. | W. S. Hotchkiss..... | 228 21 |
| July 9, 1904 | 4176 | Merchandise | Keating Implement Co..... | 4 92 |
| | 4177 | Merchandise | B. F. Avery & Son..... | 4 65 |
| | 4178 | Merchandise | Floore & Cross..... | 18 00 |
| Aug. 24, 1904 | 4390 | Salary and expense.... | W. S. Hotchkiss..... | 232 81 |
| Expended | | | | \$14,024 15 |
| Appropriation 1902-03 \$10,000 00 | | | | |
| Appropriation by citizens of Troupe..... | | | | 1,000 00 |
| Appropriation 1903-04 | | | | 3,000 00 |
| By overcheck | | | | 24 15 |
| | | | | <hr/> |
| | | | | \$14,024 15 |
| | | | | <hr/> |
| | | | | \$14,024 15 |

